GenCore version 5.1.6

OM nucleic - protein search, using frame_plus_n2p model

Run on: March 26, 2004, 12:45:36 ; Search time 91.5 Seconds
(without alignments)
11982.109 Million cell updates/sec

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Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1065169 seqs, 261661801 residues

Total number of hits satisfying chosen parameters: 2130338

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
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2	3511	85.6	593	9	US-09-824-807-17	Sequence 17, Appl
3	3511	85.6	593	9	US-09-824-647-17	Sequence 17, Appl
4	3511	85.6	593	14	US-10-218-509-17	Sequence 17, Appl
5	3511	85.6	593	14	US-10-281-160-17	Sequence 17, Appl
6	3511	85.6	593	15	US-10-321-587-17	Sequence 17, Appl
7	3492	85.1	621	9	US-09-925-301-1416	Sequence 1416, Ap
8	3472	84.6	593	14	US-10-262-473-6	Sequence 6, Appli
9	2681	65.3	589	9	US-09-813-156-2	Sequence 2, Appli
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19	368	9.0	2403	14	US-10-184-644-513	Sequence 513, App
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21	353	8.6	2764	14	US-10-184-644-117	Sequence 117, App
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ALIGNMENTS

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US-09-813-156-17
; Sequence 17, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Human GP88 cDNA
US-09-813-156-17

Alignment Scores:
Pred. No.: 6.54e-195 Length: 593

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; Sequence 17, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
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;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-824-807-17

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Percent Similarity:       100.00%         Conservative:    0
Best Local Similarity:    100.00%         Mismatches:      0
Query Match:              85.57%          Indels:          0
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US-09-824-647-16 (1-2095) x US-09-824-807-17 (1-593)

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Db        301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        401 GlnHisCysCysProGlnArgTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgGlySerLeuSerHisProArg 440

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlyThrCysCysProSerGln 460

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TrpAlaCysCysProTyrAlaGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        561 AlaGlyPheArgCysAlaArgArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              ||||||||||||||||||||||||||||||||||||||||
Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593

RESULT 3
US-09-824-647-17
; Sequence 17, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
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;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-824-647-17

Alignment Scores:
Pred. No.:                6.54e-195      Length:          593
Score:                    3511.00        Matches:         593
Percent Similarity:       100.00%        Conservative:    0
Best Local Similarity:    100.00%        Mismatches:      0
Query Match:              85.57%         Indels:          0
DB:                       9              Gaps:            0

US-09-824-647-16 (1-2095) x US-09-824-647-17 (1-593)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         81 SerSerCysCysProPheProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        141 ValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 160

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        161 ArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThrArgCysIleThr 180

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 ProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThrAsnArgAlaVal 200

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        201 AlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysProAspGlySerThr 220

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        221 CysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsnAlaThrCysCys 240

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 260

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        261 LeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAlaHisThrValGly 280

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        281 AspValLysCysAspMetGluValSerCysProAspGlyTyrThrCysCysArgLeuGln 300

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        401 GlnHisCysCysProGlnArgTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgGlySerLeuSerHisProArg 440

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlyThrCysCysProSerGln 460

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TrpAlaCysCysProTyrAlaGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        561 AlaGlyPheArgCysAlaArgArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              |||||||||||||||||||||||||||||||||||||||
Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593

RESULT 4
US-10-218-509-17
; Sequence 17, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
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;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-10-218-509-17

Alignment Scores:
Pred. No.:                6.54e-195      Length:          593
Score:                    3511.00        Matches:         593
Percent Similarity:       100.00%        Conservative:    0
Best Local Similarity:    100.00%        Mismatches:      0
Query Match:              85.57%         Indels:          0
DB:                       14             Gaps:            0

US-09-824-647-16 (1-2095) x US-10-218-509-17 (1-593)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
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Db          1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         81 SerSerCysCysProPheProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
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Db        121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        141 ValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 160

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        161 ArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThrArgCysIleThr 180

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
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Db        181 ProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThrAsnArgAlaVal 200

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        201 AlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysProAspGlySerThr 220

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        221 CysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsnAlaThrCysCys 240

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 260

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        261 LeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAlaHisThrValGly 280

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        281 AspValLysCysAspMetGluValSerCysProAspGlyTyrThrCysCysArgLeuGln 300

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        401 GlnHisCysCysProGlnArgTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgGlySerLeuSerHisProArg 440

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlyThrCysCysProSerGln 460

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TrpAlaCysCysProTyrAlaGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        561 AlaGlyPheArgCysAlaArgArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              |||||||||||||||||||||||||||||||||||||||
Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593
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RESULT 5
US-10-281-160-17
; Sequence 17, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-10-281-160-17

Alignment Scores:
Pred. No.:                6.54e-195       Length:          593
Score:                    3511.00         Matches:         593
Percent Similarity:       100.00%         Conservative:    0
Best Local Similarity:    100.00%         Mismatches:      0
Query Match:              85.57%          Indels:          0
DB:                       14              Gaps:            0

US-09-824-647-16 (1-2095) x US-10-281-160-17 (1-593)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         81 SerSerCysCysProProProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        141 ValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 160

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        161 ArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThrArgCysIleThr 180

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 ProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThrAsnArgAlaVal 200

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        201 AlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysProAspGlySerThr 220

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        221 CysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsnAlaThrCysCys 240

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 260

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        261 LeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAlaHisThrValGly 280

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        281 AspValLysCysAspMetGluValSerCysProAspGlyTyrThrCysCysArgLeuGln 300

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        401 GlnHisCysCysProGlnArgTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgGlySerLeuSerHisProArg 440

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlyThrCysCysProSerGln 460

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TrpAlaCysCysProTyrAlaGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db        561 AlaGlyPheArgCysAlaArgArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              |||||||||||||||||||||||||||||||||||||||
Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593

RESULT 6
US-10-321-587-17
; Sequence 17, Application US/10321587
; Publication No. US20030215445A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-10-321-587-17

Alignment Scores:
Pred. No.:                6.54e-195      Length:          593
Score:                    3511.00        Matches:         593
Percent Similarity:       100.00%        Conservative:    0
Best Local Similarity:    100.00%        Mismatches:      0
Query Match:              85.57%         Indels:          0
DB:                       15             Gaps:            0

US-09-824-647-16 (1-2095) x US-10-321-587-17 (1-593)

Qy          13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db           1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy          73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy         133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy         193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy         253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          81 SerSerCysCysProPheProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy         313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120

Qy         373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy         433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         141 ValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 160

Qy         493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         161 ArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThrArgCysIleThr 180

Qy         553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 ProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThrAsnArgAlaVal 200

Qy         613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         201 AlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysProAspGlySerThr 220

Qy         673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         221 CysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsnAlaThrCysCys 240

Qy         733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         241 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 260

Qy         793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         261 LeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAlaHisThrValGly 280

Qy         853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         281 AspValLysCysAspMetGluValSerCysProAspGlyTyrThrCysCysArgLeuGln 300

Qy         913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy         973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy        1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy        1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy        1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy        1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         401 GlnHisCysCysProGlnArgTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy        1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgGlySerLeuSerHisProArg 440

Qy        1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlyThrCysCysProSerGln 460

Qy        1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy        1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy        1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy        1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540
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Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TrpAlaCysCysProTyrAlaGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        561 AlaGlyPheArgCysAlaArgArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
             |||||||||||||||||||||||||||||||||||||||
Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593

RESULT 7
US-09-925-301-1416
; Sequence 1416, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA106
;  CURRENT APPLICATION NUMBER: US/09/925,301
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05882
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1694
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1416
;   LENGTH: 621
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-925-301-1416

Alignment Scores:
Pred. No.:                8.21e-194       Length:          621
Score:                    3492.00         Matches:         591
Percent Similarity:       98.99%          Conservative:    0
Best Local Similarity:    98.99%          Mismatches:      6
Query Match:              85.11%          Indels:          0
DB:                       9               Gaps:            0

US-09-824-647-16 (1-2095) x US-09-925-301-1416 (1-621)

Qy          1 CGCAGGCAGACCATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCT 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         25 ArgArgGlnThrMetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAla 44

Qy         61 GGAACGCGGTGCCCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         45 GlyThrArgCysProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGly 64

Qy        121 GCCAGCTACAGCTGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCAT 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         65 AlaSerTyrSerCysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHis 84

Qy        181 CTGGGTGGCCCCTGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACC 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         85 LeuGlyGlyProCysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThr 104

Qy        241 GTCTCAGGGACTTCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCAT 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        105 ValSerGlyThrSerSerCysCysProPheProGluAlaValAlaCysGlyAspGlyHis 124

Qy        301 CACTGCTGCCCACGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCA 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        125 HisCysCysProArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSer 144

Qy        361 GGTAACAACTCCGTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTC 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        145 GlyAsnAsnSerValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPhe 164

Qy        421 TCCACGTGCTGTGTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCC 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        165 SerThrCysCysValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSer 184

Qy        481 TGCTGTGAAGACAGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACC 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        185 CysCysGluAspArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThr 204

Qy        541 CGCTGCATCACACCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACT 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        205 ArgCysIleThrProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThr 224

Qy        601 AACAGGGCAGTGGCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCT 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        225 AsnArgAlaValAlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysPro 244

Qy        661 GATGGTTCTACCTGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAAC 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        245 AspGlySerThrCysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsn 264

Qy        721 GCCACCTGCTGCTCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATC 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        265 AlaThrCysCysSerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIle 284

Qy        781 CAGAGTAAGTGCCTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCG 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        285 GlnSerLysCysLeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAla 304

Qy        841 CACACAGTGGGCGATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGC 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        305 HisThrValGlyAspValLysCysAspMetGluValSerCysProAspGlyTyrThrCys 324

Qy        901 TGCCGTCTACAGTCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAG 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        325 CysArgLeuGlnSerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGlu 344

Qy        961 GACCACATACACTGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAA 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        345 AspHisIleHisCysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGlu 364

Qy       1021 CAGGGGCCCCACCAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGAC 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        365 GlnGlyProHisGlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAsp 384

Qy       1081 CCACAAGCCTTGAAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGAT 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        385 ProGlnAlaLeuLysArgAspValProCysAspAsnValSerSerCysProSerSerAsp 404

Qy       1141 ACCTGCTGCCAACTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGC 1200
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        405 ThrCysCysGlnLeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCys 424

Qy       1201 TGCTCGGACCACCAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGT 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        425 CysSerAspHisGlnHisCysCysProGlnGlyTyrThrCysValAlaGluGlyGlnCys 444

Qy       1261 CAGCGAGGAAGCGAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTA 1320
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        445 GlnArgGlySerGluIleValAlaGlyLeuGluLysMetProAlaArgArgAlaSerLeu 464

Qy       1321 TCCCACCCCAGAGACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGC 1380
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        465 SerHisProArgAspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCys 484

Qy       1381 TGCCCGAGCCAGGGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAG 1440
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        485 CysProSerLeuGlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGlu 504

Qy       1441 GATCGCCAGCACTGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAG 1500
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        505 AspArgGlnHisCysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGlu 524

Qy       1501 AAGGAAGTGGTCTCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTG 1560
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db        525 LysGluValValSerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyVal 544

Qy       1561 AAGGACGTGGAGTGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGAC 1620
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        545 LysAspValGluCysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAsp 564

Qy       1621 AACCGACAGGGCTGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGC 1680
              ||||||||||||||||||||||||||||||  ||||||||||||||||||||||||||||
Db        565 AsnArgGlnGlyTrpAlaCysCysProTyrArgGlnGlyValCysCysAlaAspArgArg 584

Qy       1681 CACTGCTGTCCTGCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAG 1740
              ||||||||||||||||||||||||||||||  ||||||||||||||||||||||||||||
Db        585 HisCysCysProAlaGlyPheArgCysAlaAlaArgGlyThrLysCysLeuArgArgGlu 604

Qy       1741 GCCCCGCGCTGGGACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
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Db        605 AlaProArgTrpAspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 621

RESULT 8
US-10-262-473-6
; Sequence 6, Application US/10262473
; Publication No. US20030199442A1
; GENERAL INFORMATION:
;  APPLICANT: Alsobrook, John,
;  APPLICANT:  Burgess, Catherine,
;  APPLICANT:  Gorman, Linda,
;  APPLICANT:  Guo, Xiaojia,
;  APPLICANT:  Lepley, Denise,
;  APPLICANT:  Patturajan, Meera,
;  APPLICANT:  Rastelli, Luca,
;  APPLICANT:  Reiger, Daniel,
;  APPLICANT:  Spytek, Kimberly,
;  APPLICANT:  Zhong, Mei
;  TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
;  FILE REFERENCE: 21402-462B
;  CURRENT APPLICATION NUMBER: US/10/262,473
;  CURRENT FILING DATE:  2003-01-28
;  PRIOR APPLICATION NUMBER: 60/327,917
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/328,029
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/328,056
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/349,575
;  PRIOR FILING DATE: 2001-10-29
;  PRIOR APPLICATION NUMBER: 60/381,038
;  PRIOR FILING DATE: 2002-05-16
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 6
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-262-473-6

Alignment Scores:
Pred. No.:                1.17e-192       Length:          593
Score:                    3472.00         Matches:         587
Percent Similarity:       98.99%          Conservative:    0
Best Local Similarity:    98.99%          Mismatches:      6
Query Match:              84.62%          Indels:          0
DB:                       14              Gaps:            0

US-09-824-647-16 (1-2095) x US-10-262-473-6 (1-593)

Qy          13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
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Db           1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy          73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy         133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy         193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy         253 TCCAGTTGCTGCCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          81 SerSerCysCysProProProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy         313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120

Qy         373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy         433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         141 ValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 160

Qy         493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         161 ArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThrArgCysIleThr 180

Qy         553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 ProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThrAsnArgAlaVal 200

Qy         613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         201 AlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysProAspGlySerThr 220

Qy         673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         221 CysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsnAlaThrCysCys 240

Qy         733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         241 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 260

Qy         793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         261 LeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAlaHisThrValGly 280

Qy         853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         281 AspValLysCysAspMetGluValSerCysProAspGlyTyrThrCysCysArgLeuGln 300

Qy         913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy         973 TGCTGTCCCGCGGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy        1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy        1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy        1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy        1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
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Db        401 GlnHisCysCysProGlnGlyTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332

Db        421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgAlaSerLeuSerHisProArg 440

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392

Db        441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 460

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452

Db        461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512

Db        481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

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Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632

Db        521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

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Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752

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Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791

Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593

RESULT 9
US-09-813-156-2
; Sequence 2, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-813-156-2

Alignment Scores:
Pred. No.:              5.79e-147       Length:         589
Score:                  2681.00         Matches:        439
Percent Similarity:     83.81%          Conservative:   58
Best Local Similarity:  74.03%          Mismatches:     92
Query Match:            65.34%          Indels:         4
DB:                     9               Gaps:           3

US-09-824-647-16 (1-2095) x US-09-813-156-2 (1-589)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72

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Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132

Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192

Db         41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252

Db         61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312

Db         81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372

Db        101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro 119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432

Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492

Db        140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552

Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer 179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612

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Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672

Db        200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732

Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792

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Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852

Db        260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912

Db        279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn 298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972

Db        299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysAspAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032

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Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys 378
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Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
Db        379 LeuAsnSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysSerAspAsn 398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
Db        499 PheIleGlnProProValLeuLeuThrLeuGlyProLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589

RESULT 10
US-09-824-807-2
; Sequence 2, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-824-807-2

Alignment Scores:
Pred. No.:              5.79e-147      Length:          589
Score:                  2681.00        Matches:         439
Percent Similarity:     83.81%         Conservative:    58
Best Local Similarity:  74.03%         Mismatches:      92
Query Match:            65.34%         Indels:          4

DB:                 9          Gaps:          3

US-09-824-647-16 (1-2095) x US-09-824-807-2 (1-589)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
Db          1 MetTrpValLeuMetSerTrpLeuAlaPheAlaAlaGlyLeuValAlaGlyThrGlnCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
Db         41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
Db         61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
Db         81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
Db        101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro 119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
Db        140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer 179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
Db        180 ProThrGlyThrHisThrLeuLeuLysLysPheProAlaGlnLysThrAsnSerAlaVal 199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
Db        200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
Db        260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
Db        279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn 298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
Db        299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysAspAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
Db        319 CysCysProAlaGlyPheGlnCysHisThrGluLysGlyThrCysGluMetGlyIleLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
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Db        339 GlnValGlyTrpMetLysLysValIleAlaProLeuArgLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152

Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212

Db        379 LeuAsnSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysSerAspAsn 398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272

Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332

Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392

Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452

Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512

Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572

Db        499 PheIleGlnProProValLeuLeuThrLeuGlyProLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632

Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692

Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752

Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791

Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589

RESULT 11
US-09-824-647-2
; Sequence 2, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-824-647-2
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Alignment Scores:
Pred. No.:                5.79e-147      Length:          589
Score:                    2681.00        Matches:         439
Percent Similarity:       83.81%         Conservative:    58
Best Local Similarity:    74.03%         Mismatches:      92
Query Match:              65.34%         Indels:          4
DB:                       9              Gaps:            3

US-09-824-647-16 (1-2095) x US-09-824-647-2 (1-589)

Qy          13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72

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Db          21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer 40

Qy         133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192

Db          41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer 60

Qy         193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252

Db          61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr 80

Qy         253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312

Db          81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro 100

Qy         313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372

Db         101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro 119

Qy         373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432

Db         120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy         433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492

Db         140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy         493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552

Db         160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer 179

Qy         553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612

Db         180 ProThrGlyThrHisThrLeuLeuLysLysPheProAlaGlnLysThrAsnSerAlaVal 199

Qy         613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672

Db         200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy         673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732

Db         220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy         733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792

Db         240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy         793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852

Db         260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys 278

Qy         853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912

Db         279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn 298

Qy         913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972

Db         299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysAspAspHisIleHis 318
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Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
Db        319 CysCysProAlaGlyPheGlnCysHisThrGluLysGlyThrCysGluMetGlyIleLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
Db        339 GlnValGlyTrpMetLysLysValIleAlaProLeuArgLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
Db        379 LeuAsnSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysSerAspAsn 398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
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Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589
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RESULT 12
US-10-218-509-2
; Sequence 2, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/10/218,509
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 2
; LENGTH: 589
; TYPE: PRT
; ORGANISM: Mouse epithelin/granulin
US-10-218-509-2

Alignment Scores:

Pred. No.:	5.79e-147	Length:	589
Score:	2681.00	Matches:	439
Percent Similarity:	83.81%	Conservative:	58
Best Local Similarity:	74.03%	Mismatches:	92
Query Match:	65.34%	Indels:	4
DB:	14	Gaps:	3

US-09-824-647-16 (1-2095) x US-10-218-509-2 (1-589)

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Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
Db          1 MetTrpValLeuMetSerTrpLeuAlaPheAlaAlaGlyLeuValAlaGlyThrGlnCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
Db         41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
Db         61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
Db         81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
Db        101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro 119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
Db        140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer 179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
Db        180 ProThrGlyThrHisThrLeuLeuLysPheProAlaGlnLysThrAsnSerAlaVal 199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
Db        200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
Db        260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
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Db        279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn 298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
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Db        299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysAspAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
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Db        319 CysCysProAlaGlyPheGlnCysHisThrGluLysGlyThrCysGluMetGlyIleLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
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Db        339 GlnValGlyTrpMetLysLysValIleAlaProLeuArgLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
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Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
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Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
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Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
                :::|||||||||||||||||:::|||||||||:::   :::
Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
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Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
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Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
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Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
                ||||||          |||          |||   ||||||      :::|||||||
Db        499 PheIleGlnProProValLeuLeuThrLeuGlyProLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              |||||||||||||||||||||||||||||||||||||||||||:::|||:::
Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              ||||||||||||||||   :::|||||||||||||   |||   ||||||||||||||||
Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
                ||||||   |||:::   |||||||||||||||||||||:::::::   |||||||||
Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              |||      ||||||||||||      |||   ||||||
Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589

RESULT 13
US-10-281-160-2
; Sequence 2, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-10-281-160-2

Alignment Scores:
Pred. No.:                5.79e-147      Length:          589
Score:                    2681.00        Matches:         439
Percent Similarity:       83.81%         Conservative:    58
Best Local Similarity:    74.03%         Mismatches:      92
Query Match:              65.34%         Indels:          4
DB:                       14             Gaps:            3

US-09-824-647-16 (1-2095) x US-10-281-160-2 (1-589)

Qy          13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
               ||||||   |||:::|||||:::|||       |||||||||||||||||||:::|||
Db           1 MetTrpValLeuMetSerTrpLeuAlaPheAlaAlaGlyLeuValAlaGlyThrGlnCys 20

Qy          73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
               ||||||||||||||||||||||||||||||||||||||   ||||||||:::||||||
Db          21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer 40

Qy         133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
               ||||||   ||||||||||||   ||||||        |||   ||||||   |||
Db          41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer 60

Qy         193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
               ||||||          ||||||   ||||||:::|||||:::   |||||||||||||||
Db          61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr 80

Qy         253 TCCAGTTGCTGCCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
               ||||||||||||||||||   :::   |||:::|||||||||||:::|||||||||||||
Db          81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro 100

Qy         313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
               :::|||||||||||||||||||||||||::|||||||||||||   |||   :::|||
Db         101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro 119

Qy         373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
               :::|||||:::|||||||||   |||||||||||||||||||   :::|||||||||
Db         120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy         433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
               :::||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy         493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
               ||||||||||||||||||||||||||||   |||||||||||||||||||||||:::::::
Db         160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer 179

Qy         553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
               |||||||||||||   |||   ||||||   |||||||||:::||||||   ||||||
Db         180 ProThrGlyThrHisThrLeuLeuLysLysPheProAlaGlnLysThrAsnSerAlaVal 199

Qy         613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
               :::|||   ||||||:::|||||||||||:::::::::|||||||||   ||||||
Db         200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy         673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
               ||||||||||||||:::|||||||||||||||||||||||||||||||||   ||||||
Db         220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy         733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259
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Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              |||||||||   |||  |||||||||||||||||||||||||   :::   |||
Db        260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
              :::|||||||||||||||||||||||||||||||:::||||||||||||||||||||
Db        279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn 298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              :::|||||||||||||||||||||||   :::|||||||||||:::|||||||||||||
Db        299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysAspAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
              |||||||||||||||||   |||   |||:::|||||||||||||||   |||
Db        319 CysCysProAlaGlyPheGlnCysHisThrGluLysGlyThrCysGluMetGlyIleLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
              ||||||   ||||||:::|||      |||   |||   |||||||||||||||   |||
Db        339 GlnValGlyTrpMetLysLysValIleAlaProLeuArgLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              |||   |||   |||||||||:::   :::   ||||||:::::::::|||||||||:::
Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              |||   ||||||:::|||||||||||||||||||||||||||||||||||||||||:::
Db        379 LeuAsnSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysSerAspAsn 398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
              |||||||||||||||||   :::|||||||:::|||:::|||   ||||||:::|||
Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
                 :::|||||||||||||||:::|||||||||:::   :::
Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              |||||||||||||||||||||||||||||||||||   |||||||||||||||
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              |||||||||||||||||||||||||||||||||||||||||:::|||||||||:::|||
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
                    ||||||          |||          |||   ||||||      :::||||||
Db        499 PheIleGlnProProValLeuLeuThrLeuGlyProLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              |||||||||||||||||||||||||||||||||||||||||||:::|||:::
Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              |||||||||||||||||   :::|||||||||||   |||   |||||||||||||||
Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
                 ||||||   |||:::   |||||||||||||||||||||:::::   |||||||||
Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              |||      ||||||||||||      |||   ||||||
Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589

RESULT 14
US-10-321-587-2
; Sequence 2, Application US/10321587
; Publication No. US20030215445A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-10-321-587-2

Alignment Scores:
Pred. No.:              5.79e-147      Length:          589
Score:                  2681.00        Matches:         439
Percent Similarity:     83.81%         Conservative:    58
Best Local Similarity:  74.03%         Mismatches:      92
Query Match:            65.34%         Indels:          4
DB:                     15             Gaps:            3

US-09-824-647-16 (1-2095) x US-10-321-587-2 (1-589)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
              ||||||   |||:::||||||:::|||      |||||||||||||||||||:::|||
Db          1 MetTrpValLeuMetSerTrpLeuAlaPheAlaAlaGlyLeuValAlaGlyThrGlnCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              |||||||||||||||||||||||||||||||||||||   |||||||||:::||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||   ||||||||||||   ||||||         |||   ||||||   |||
Db         41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||          ||||||   ||||||:::||||||:::   ||||||||||||||
Db         61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||   :::   |||:::|||||||||||||:::||||||||||||
Db         81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
              :::|||||||||||||||||||||||||:::||||||||||||   |||   :::|||
Db        101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro 119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              :::||||||:::|||||||||   |||||||||||||||||||||   :::||||||||||
Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              :::|||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||   |||||||||||||||||||||||:::::::
Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer 179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              ||||||||||||||   |||   ||||||   |||||||||:::||||||   ||||||
Db        180 ProThrGlyThrHisThrLeuLeuLysLysProProAlaGlnLysThrAsnSerAlaVal 199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              :::|||      ||||||:::||||||||||:::::::::|||||||||   ||||||
Db        200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
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Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792

Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852

Db        260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912

Db        279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn 298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972

Db        299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysAspAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032

Db        319 CysCysProAlaGlyPheGlnCysHisThrGluLysGlyThrCysGluMetGlyIleLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092

Db        339 GlnValGlyTrpMetLysLysValIleAlaProLeuArgLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152

Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212

Db        379 LeuAsnSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysSerAspAsn 398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272

Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332

Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392

Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452

Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512

Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572

Db        499 PheIleGlnProProValLeuLeuThrLeuGlyProLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632

Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692

Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752

Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
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Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589

RESULT 15
US-10-262-473-8
; Sequence 8, Application US/10262473
; Publication No. US20030199442A1
; GENERAL INFORMATION:
;  APPLICANT: Alsobrook, John,
;  APPLICANT:  Burgess, Catherine,
;  APPLICANT:  Gorman, Linda,
;  APPLICANT:  Guo, Xiaojia,
;  APPLICANT:  Lepley, Denise,
;  APPLICANT:  Patturajan, Meera,
;  APPLICANT:  Rastelli, Luca,
;  APPLICANT:  Reiger, Daniel,
;  APPLICANT:  Spytek, Kimberly,
;  APPLICANT:  Zhong, Mei
;  TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHO
;  FILE REFERENCE: 21402-462B
;  CURRENT APPLICATION NUMBER: US/10/262,473
;  CURRENT FILING DATE:  2003-01-28
;  PRIOR APPLICATION NUMBER: 60/327,917
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/328,029
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/328,056
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/349,575
;  PRIOR FILING DATE: 2001-10-29
;  PRIOR APPLICATION NUMBER: 60/381,038
;  PRIOR FILING DATE: 2002-05-16
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 8
;   LENGTH: 189
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-262-473-8

Alignment Scores:
Pred. No.:                4.54e-55        Length:           189
Score:                    1090.00         Matches:          189
Percent Similarity:       95.94%          Conservative:     0
Best Local Similarity:    95.94%          Mismatches:       0
Query Match:              26.57%          Indels:           8
DB:                       14              Gaps:             1

US-09-824-647-16 (1-2095) x US-10-262-473-8 (1-189)

Qy          13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72

Db           1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy          73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132

Db          21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy         133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192

Db          41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy         193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252

Db          61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy         253 TCCAGTTGCTGCCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312

Db          81 SerSerCysCysProPheProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy         313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372

Db         101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120
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Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              |||||||||||||||||||||||||||||||||  |||                  |
Db        141 ValMetValAspGlySerTrpGlyCysCysProMet--Pro-----------------G 154

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
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Search completed: March 26, 2004, 13:05:02
Job time : 125.5 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:27:45 ; Search time 31.2308 Seconds
(without alignments)
117.297 Million cell updates/sec

Title: US-09-824-647-7
Perfect score: 74
Sequence: 1 ARRGTKCLRREAPR 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1065169 seqs, 261661801 residues

Total number of hits satisfying chosen parameters: 1065169

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	74	100.0	14	9	US-09-813-156-7	Sequence 7, Appli
2	74	100.0	14	9	US-09-824-807-7	Sequence 7, Appli
3	74	100.0	14	9	US-09-824-647-7	Sequence 7, Appli
4	74	100.0	14	14	US-10-218-509-7	Sequence 7, Appli
5	74	100.0	14	14	US-10-281-160-7	Sequence 7, Appli
6	74	100.0	14	15	US-10-321-587-7	Sequence 7, Appli
7	74	100.0	593	9	US-09-813-156-17	Sequence 17, Appl
8	74	100.0	593	9	US-09-824-807-17	Sequence 17, Appl
9	74	100.0	593	9	US-09-824-647-17	Sequence 17, Appl
10	74	100.0	593	14	US-10-218-509-17	Sequence 17, Appl
11	74	100.0	593	14	US-10-281-160-17	Sequence 17, Appl
12	74	100.0	593	15	US-10-321-587-17	Sequence 17, Appl
13	68	91.9	593	14	US-10-262-473-6	Sequence 6, Appli
14	68	91.9	621	9	US-09-925-301-1416	Sequence 1416, Ap
15	53	71.6	14	9	US-09-813-156-5	Sequence 5, Appli
16	53	71.6	14	9	US-09-824-807-5	Sequence 5, Appli
17	53	71.6	14	9	US-09-824-647-5	Sequence 5, Appli
18	53	71.6	14	14	US-10-218-509-5	Sequence 5, Appli
19	53	71.6	14	14	US-10-281-160-5	Sequence 5, Appli
20	53	71.6	14	15	US-10-321-587-5	Sequence 5, Appli
21	53	71.6	589	9	US-09-813-156-2	Sequence 2, Appli
22	53	71.6	589	9	US-09-824-807-2	Sequence 2, Appli
23	53	71.6	589	9	US-09-824-647-2	Sequence 2, Appli
24	53	71.6	589	14	US-10-218-509-2	Sequence 2, Appli
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27	43	58.1	330	12	US-10-425-114-46601	Sequence 46601, A
28	41	55.4	113	10	US-09-975-719-307	Sequence 307, App
29	41	55.4	1083	14	US-10-217-700-11	Sequence 11, Appl
30	40	54.1	250	14	US-10-156-761-14524	Sequence 14524, A
31	40	54.1	831	15	US-10-369-493-18676	Sequence 18676, A
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33	39	52.7	91	12	US-10-363-616-274	Sequence 274, App
34	39	52.7	147	14	US-10-080-170-466	Sequence 466, App
35	39	52.7	255	10	US-09-866-050A-692	Sequence 692, App
36	39	52.7	255	10	US-09-852-472-24	Sequence 24, Appl
37	39	52.7	275	9	US-09-790-264-15	Sequence 15, Appl
38	39	52.7	275	14	US-10-269-353-15	Sequence 15, Appl
39	39	52.7	278	10	US-09-852-472-19	Sequence 19, Appl
40	39	52.7	1121	9	US-09-970-711-28	Sequence 28, Appl
41	38	51.4	87	12	US-10-424-599-146564	Sequence 146564,
42	38	51.4	119	14	US-10-103-313-525	Sequence 525, App
43	38	51.4	137	14	US-10-103-313-397	Sequence 397, App
44	38	51.4	299	12	US-10-425-114-70681	Sequence 70681, A
45	38	51.4	300	14	US-10-210-428-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-813-156-7
; Sequence 7, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Human granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(14)
; OTHER INFORMATION: Internal peptide of human GP88 used to develop
; OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-09-813-156-7

Query Match 100.0%; Score 74; DB 9; Length 14;
Best Local Similarity 100.0%; Pred. No. 1.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          1 ARRGTKCLRREAPR 14
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RESULT 2
US-09-824-807-7

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; Sequence 7, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Human granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of human GP88 used to develop
;   OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-09-824-807-7

  Query Match             100.0%;  Score 74;  DB 9;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 1.3e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ARRGTKCLRREAPR 14
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Db          1 ARRGTKCLRREAPR 14


RESULT 3
US-09-824-647-7
; Sequence 7, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Human granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of human GP88 used to develop
;   OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-09-824-647-7

  Query Match             100.0%;  Score 74;  DB 9;  Length 14;
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  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ARRGTKCLRREAPR 14
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Db          1 ARRGTKCLRREAPR 14


RESULT 4
US-10-218-509-7
; Sequence 7, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Human granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of human GP88 used to develop
;   OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-10-218-509-7

  Query Match             100.0%;  Score 74;  DB 14;  Length 14;
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Qy          1 ARRGTKCLRREAPR 14
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Db          1 ARRGTKCLRREAPR 14


RESULT 5
US-10-281-160-7
; Sequence 7, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Human granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of human GP88 used to develop
;   OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-10-281-160-7

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  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ARRGTKCLRREAPR 14
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Db          1 ARRGTKCLRREAPR 14


RESULT 6
US-10-321-587-7
; Sequence 7, Application US/10321587
; Publication No. US20030215445A1
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; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Human granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of human GP88 used to develop
;   OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-10-321-587-7

  Query Match             100.0%;  Score 74;  DB 15;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 1.3e-05;
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Qy          1 ARRGTKCLRREAPR 14
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Db          1 ARRGTKCLRREAPR 14


RESULT 7
US-09-813-156-17
; Sequence 17, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-813-156-17

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  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ARRGTKCLRREAPR 14
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Db        566 ARRGTKCLRREAPR 579


RESULT 8
US-09-824-807-17
; Sequence 17, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-824-807-17

  Query Match             100.0%;  Score 74;  DB 9;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 0.00048;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ARRGTKCLRREAPR 14
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Db        566 ARRGTKCLRREAPR 579


RESULT 9
US-09-824-647-17
; Sequence 17, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
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;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-824-647-17

  Query Match             100.0%;  Score 74;  DB 9;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 0.00048;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ARRGTKCLRREAPR 14
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Db        566 ARRGTKCLRREAPR 579


RESULT 10
US-10-218-509-17
; Sequence 17, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-10-218-509-17
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Query Match 100.0%; Score 74; DB 14; Length 593;
Best Local Similarity 100.0%; Pred. No. 0.00048;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ARRGTKCLRREAPR 14
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Db        566 ARRGTKCLRREAPR 579
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RESULT 11
US-10-281-160-17
; Sequence 17, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/10/281,160
; CURRENT FILING DATE: 2002-10-28
; PRIOR APPLICATION NUMBER: US/08/991,862
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Human GP88 cDNA
US-10-281-160-17

Query Match 100.0%; Score 74; DB 14; Length 593;
Best Local Similarity 100.0%; Pred. No. 0.00048;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ARRGTKCLRREAPR 14
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Db        566 ARRGTKCLRREAPR 579
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RESULT 12
US-10-321-587-17
; Sequence 17, Application US/10321587
; Publication No. US20030215445A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/10/321,587
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: US/08/991,862
; PRIOR FILING DATE: PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Human GP88 cDNA
US-10-321-587-17

Query Match 100.0%; Score 74; DB 15; Length 593;
Best Local Similarity 100.0%; Pred. No. 0.00048;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ARRGTKCLRREAPR 14
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Db        566 ARRGTKCLRREAPR 579
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RESULT 13
US-10-262-473-6
; Sequence 6, Application US/10262473
; Publication No. US20030199442A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, John,
; APPLICANT: Burgess, Catherine,
; APPLICANT: Gorman, Linda,
; APPLICANT: Guo, Xiacjia,
; APPLICANT: Lepley, Denise,
; APPLICANT: Patturajan, Meera,
; APPLICANT: Rastelli, Luca,
; APPLICANT: Reiger, Daniel,
; APPLICANT: Spytek, Kimberly,
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHO
; FILE REFERENCE: 21402-462B
; CURRENT APPLICATION NUMBER: US/10/262,473
; CURRENT FILING DATE: 2003-01-28
; PRIOR APPLICATION NUMBER: 60/327,917
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,029
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/328,056
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/349,575
; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 60/381,038
; PRIOR FILING DATE: 2002-05-16
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 6
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-262-473-6

Query Match 91.9%; Score 68; DB 14; Length 593;
Best Local Similarity 92.9%; Pred. No. 0.0048;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 ARRGTKCLRREAPR 14
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Db        566 AARGTKCLRREAPR 579
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RESULT 14
US-09-925-301-1416
; Sequence 1416, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1416
; LENGTH: 621
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-301-1416

Query Match 91.9%; Score 68; DB 9; Length 621;
Best Local Similarity 92.9%; Pred. No. 0.005;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 ARRGTKCLRREAPR 14
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Db        594 AARGTKCLRREAPR 607


RESULT 15
US-09-813-156-5
; Sequence 5, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-813-156-5

  Query Match             71.6%;  Score 53;  DB 9;  Length 14;
  Best Local Similarity   75.0%;  Pred. No. 0.041;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RGTKCLRREAPR 14
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Db          3 RGTKCLRKKIPR 14


Search completed: March 26, 2004, 12:48:35
Job time : 31.4308 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:27:45 ; Search time 42.3846 Seconds
(without alignments)
117.297 Million cell updates/sec

Title: US-09-824-647-6
Perfect score: 98
Sequence: 1 EKAPAHLSLPDPQALKRDV 19

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1065169 seqs, 261661801 residues

Total number of hits satisfying chosen parameters: 1065169

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	98	100.0	19	9	US-09-813-156-6	Sequence 6, Appli
2	98	100.0	19	9	US-09-824-807-6	Sequence 6, Appli
3	98	100.0	19	9	US-09-824-647-6	Sequence 6, Appli
4	98	100.0	19	14	US-10-218-509-6	Sequence 6, Appli
5	98	100.0	19	14	US-10-281-160-6	Sequence 6, Appli
6	98	100.0	19	15	US-10-321-587-6	Sequence 6, Appli
7	98	100.0	593	9	US-09-813-156-17	Sequence 17, Appl
8	98	100.0	593	9	US-09-824-807-17	Sequence 17, Appl
9	98	100.0	593	9	US-09-824-647-17	Sequence 17, Appl
10	98	100.0	593	14	US-10-218-509-17	Sequence 17, Appl
11	98	100.0	593	14	US-10-281-160-17	Sequence 17, Appl
12	98	100.0	593	14	US-10-262-473-6	Sequence 6, Appli
13	98	100.0	593	15	US-10-321-587-17	Sequence 17, Appl
14	98	100.0	621	9	US-09-925-301-1416	Sequence 1416, Ap
15	50	51.0	589	9	US-09-813-156-2	Sequence 2, Appli
16	50	51.0	589	9	US-09-824-807-2	Sequence 2, Appli
17	50	51.0	589	9	US-09-824-647-2	Sequence 2, Appli
18	50	51.0	589	14	US-10-218-509-2	Sequence 2, Appli
19	50	51.0	589	14	US-10-281-160-2	Sequence 2, Appli
20	50	51.0	589	15	US-10-321-587-2	Sequence 2, Appli
21	49	50.0	795	15	US-10-369-493-8226	Sequence 8226, Ap
22	48	49.0	116	14	US-10-029-386-34157	Sequence 34157, A
23	48	49.0	712	9	US-09-364-847-51	Sequence 51, Appl
24	47	48.0	828	15	US-10-144-194A-96	Sequence 96, Appl
25	47	48.0	917	12	US-10-412-699B-1657	Sequence 1657, Ap
26	47	48.0	917	15	US-10-374-780A-1624	Sequence 1624, Ap
27	47	48.0	2677	15	US-10-144-194A-22	Sequence 22, Appl
28	46.5	47.4	422	15	US-10-369-493-3307	Sequence 3307, Ap
29	46	46.9	833	12	US-10-282-122A-68007	Sequence 68007, A
30	46	46.9	833	15	US-10-369-493-14004	Sequence 14004, A
31	46	46.9	2115	14	US-10-208-948-4	Sequence 4, Appli
32	46	46.9	2150	14	US-10-208-948-27	Sequence 27, Appl
33	45	45.9	59	9	US-09-864-761-34773	Sequence 34773, A
34	45	45.9	551	15	US-10-369-493-15697	Sequence 15697, A
35	45	45.9	551	15	US-10-369-493-16088	Sequence 16088, A
36	45	45.9	624	15	US-10-369-493-15330	Sequence 15330, A
37	44.5	45.4	439	8	US-08-973-363-19	Sequence 19, Appl
38	44.5	45.4	1434	8	US-08-973-363-20	Sequence 20, Appl
39	44.5	45.4	1795	8	US-08-973-363-17	Sequence 17, Appl
40	44	44.9	19	9	US-09-813-156-3	Sequence 3, Appli
41	44	44.9	19	9	US-09-824-807-3	Sequence 3, Appli
42	44	44.9	19	9	US-09-824-647-3	Sequence 3, Appli
43	44	44.9	19	14	US-10-218-509-3	Sequence 3, Appli
44	44	44.9	19	14	US-10-281-160-3	Sequence 3, Appli
45	44	44.9	19	15	US-10-321-587-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-813-156-6
; Sequence 6, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(19)
; OTHER INFORMATION: Internal peptide of human GP88 used to develop
; OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-09-813-156-6

Query Match 100.0%; Score 98; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e-08;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          1 EKAPAHLSLPDPQALKRDV 19
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RESULT 2
US-09-824-807-6

; Sequence 6, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/824,807
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(19)
; OTHER INFORMATION: Internal peptide of human GP88 used to develop
; OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-09-824-807-6

Query Match 100.0%; Score 98; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e-08;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 EKAPAHLSLPDPQALKRDV 19

RESULT 3
US-09-824-647-6
; Sequence 6, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/824,647
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(19)
; OTHER INFORMATION: Internal peptide of human GP88 used to develop
; OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-09-824-647-6

Query Match 100.0%; Score 98; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e-08;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EKAPAHLSLPDPQALKRDV 19
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Db 1 EKAPAHLSLPDPQALKRDV 19

RESULT 4
US-10-218-509-6
; Sequence 6, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/10/218,509
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(19)
; OTHER INFORMATION: Internal peptide of human GP88 used to develop
; OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-10-218-509-6

Query Match 100.0%; Score 98; DB 14; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e-08;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EKAPAHLSLPDPQALKRDV 19
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Db 1 EKAPAHLSLPDPQALKRDV 19

RESULT 5
US-10-281-160-6
; Sequence 6, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/10/281,160
; CURRENT FILING DATE: 2002-10-28
; PRIOR APPLICATION NUMBER: US/08/991,862
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(19)
; OTHER INFORMATION: Internal peptide of human GP88 used to develop
; OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-10-281-160-6

Query Match 100.0%; Score 98; DB 14; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e-08;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 EKAPAHLSLPDPQALKRDV 19

RESULT 6
US-10-321-587-6
; Sequence 6, Application US/10321587
; Publication No. US20030215445A1

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; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Human granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of human GP88 used to develop
;   OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-10-321-587-6

  Query Match            100.0%;  Score 98;  DB 15;  Length 19;
  Best Local Similarity  100.0%;  Pred. No. 5.2e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
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Db          1 EKAPAHLSLPDPQALKRDV 19


RESULT 7
US-09-813-156-17
; Sequence 17, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-813-156-17

  Query Match            100.0%;  Score 98;  DB 9;  Length 593;
  Best Local Similarity  100.0%;  Pred. No. 1.9e-06;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 8
US-09-824-807-17
; Sequence 17, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-824-807-17

  Query Match            100.0%;  Score 98;  DB 9;  Length 593;
  Best Local Similarity  100.0%;  Pred. No. 1.9e-06;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 9
US-09-824-647-17
; Sequence 17, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-824-647-17

  Query Match            100.0%;  Score 98;  DB 9;  Length 593;
  Best Local Similarity  100.0%;  Pred. No. 1.9e-06;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
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Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 10
US-10-218-509-17
; Sequence 17, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-10-218-509-17
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  Query Match             100.0%;  Score 98;  DB 14;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 1.9e-06;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 11
US-10-281-160-17
; Sequence 17, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-10-281-160-17

  Query Match             100.0%;  Score 98;  DB 14;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 1.9e-06;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 12
US-10-262-473-6
; Sequence 6, Application US/10262473
; Publication No. US20030199442A1
; GENERAL INFORMATION:
;  APPLICANT: Alscbrook, John,
;  APPLICANT:  Burgess, Catherine,
;  APPLICANT:  Gorman, Linda,
;  APPLICANT:  Guo, Xiaojia,
;  APPLICANT:  Lepley, Denise,
;  APPLICANT:  Patturajan, Meera,
;  APPLICANT:  Rastelli, Luca,
;  APPLICANT:  Reiger, Daniel,
;  APPLICANT:  Spytek, Kimberly,
;  APPLICANT:  Zhong, Mei
;  TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
;  FILE REFERENCE: 21402-462B
;  CURRENT APPLICATION NUMBER: US/10/262,473
;  CURRENT FILING DATE:  2003-01-28
;  PRIOR APPLICATION NUMBER: 60/327,917
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/328,029
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/328,056
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/349,575
;  PRIOR FILING DATE: 2001-10-29
;  PRIOR APPLICATION NUMBER: 60/381,038
;  PRIOR FILING DATE: 2002-05-16
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 6
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-262-473-6

  Query Match             100.0%;  Score 98;  DB 14;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 1.9e-06;
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Qy          1 EKAPAHLSLPDPQALKRDV 19
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Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 13
US-10-321-587-17
; Sequence 17, Application US/10321587
; Publication No. US20030215445A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-10-321-587-17

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  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
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Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 14
US-09-925-301-1416
; Sequence 1416, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA106
;  CURRENT APPLICATION NUMBER: US/09/925,301
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05882
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1694
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1416
;   LENGTH: 621
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-925-301-1416

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Qy          1 EKAPAHLSLPDPQALKRDV 19
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Db        374 EKAPAHLSLPDPQALKRDV 392


RESULT 15
US-09-813-156-2
; Sequence 2, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-813-156-2

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Qy          1 EKAPAHLSLPDPQALKRD 18
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Db        344 KKVIAPLRLPDPQILKSD 361


Search completed: March 26, 2004, 12:48:35
Job time : 43.5846 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:27:45 ; Search time 31.2308 Seconds
(without alignments)
117.297 Million cell updates/sec

Title: US-09-824-647-5
Perfect score: 73
Sequence: 1 SARGTKCLRKKIPR 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1065169 seqs, 261661801 residues

Total number of hits satisfying chosen parameters: 1065169

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	73	100.0	14	9	US-09-813-156-5	Sequence 5, Appli
2	73	100.0	14	9	US-09-824-807-5	Sequence 5, Appli
3	73	100.0	14	9	US-09-824-647-5	Sequence 5, Appli
4	73	100.0	14	14	US-10-218-509-5	Sequence 5, Appli
5	73	100.0	14	14	US-10-281-160-5	Sequence 5, Appli
6	73	100.0	14	15	US-10-321-587-5	Sequence 5, Appli
7	73	100.0	589	9	US-09-813-156-2	Sequence 2, Appli
8	73	100.0	589	9	US-09-824-807-2	Sequence 2, Appli
9	73	100.0	589	9	US-09-824-647-2	Sequence 2, Appli
10	73	100.0	589	14	US-10-218-509-2	Sequence 2, Appli
11	73	100.0	589	14	US-10-281-160-2	Sequence 2, Appli
12	73	100.0	589	15	US-10-321-587-2	Sequence 2, Appli
13	58	79.5	593	14	US-10-262-473-6	Sequence 6, Appli
14	58	79.5	621	9	US-09-925-301-1416	Sequence 1416, Ap
15	53	72.6	14	9	US-09-813-156-7	Sequence 7, Appli
16	53	72.6	14	9	US-09-824-807-7	Sequence 7, Appli
17	53	72.6	14	9	US-09-824-647-7	Sequence 7, Appli
18	53	72.6	14	14	US-10-218-509-7	Sequence 7, Appli
19	53	72.6	14	14	US-10-281-160-7	Sequence 7, Appli
20	53	72.6	14	15	US-10-321-587-7	Sequence 7, Appli
21	53	72.6	593	9	US-09-813-156-17	Sequence 17, Appl
22	53	72.6	593	9	US-09-824-807-17	Sequence 17, Appl
23	53	72.6	593	9	US-09-824-647-17	Sequence 17, Appl
24	53	72.6	593	14	US-10-218-509-17	Sequence 17, Appl
25	53	72.6	593	14	US-10-281-160-17	Sequence 17, Appl
26	53	72.6	593	15	US-10-321-587-17	Sequence 17, Appl
27	43	58.9	51	11	US-09-864-408A-6484	Sequence 6484, Ap
28	40	54.8	89	12	US-10-424-599-255221	Sequence 255221,
29	40	54.8	255	10	US-09-866-050A-692	Sequence 692, App
30	40	54.8	255	10	US-09-852-472-24	Sequence 24, Appl
31	40	54.8	275	9	US-09-790-264-15	Sequence 15, Appl
32	40	54.8	275	14	US-10-269-353-15	Sequence 15, Appl
33	40	54.8	278	10	US-09-852-472-19	Sequence 19, Appl
34	40	54.8	555	12	US-10-282-122A-77997	Sequence 77997, A
35	39	53.4	29	14	US-10-091-166B-15	Sequence 15, Appl
36	39	53.4	29	14	US-10-272-121-15	Sequence 15, Appl
37	39	53.4	29	14	US-10-409-366-15	Sequence 15, Appl
38	39	53.4	29	14	US-10-409-532-15	Sequence 15, Appl
39	39	53.4	30	14	US-10-091-166B-16	Sequence 16, Appl
40	39	53.4	30	14	US-10-091-166B-72	Sequence 72, Appl
41	39	53.4	30	14	US-10-272-121-16	Sequence 16, Appl
42	39	53.4	30	14	US-10-272-121-72	Sequence 72, Appl
43	39	53.4	30	14	US-10-409-366-16	Sequence 16, Appl
44	39	53.4	30	14	US-10-409-366-72	Sequence 72, Appl
45	39	53.4	30	14	US-10-409-532-16	Sequence 16, Appl

ALIGNMENTS

RESULT 1
US-09-813-156-5
; Sequence 5, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 14
; TYPE: PRT
; ORGANISM: mouse granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(14)
; OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
; OTHER INFORMATION: antisera against the GP88 used in the
; OTHER INFORMATION: immunoaffinity step.
US-09-813-156-5

Query Match 100.0%; Score 73; DB 9; Length 14;
Best Local Similarity 100.0%; Pred. No. 6.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          1 SARGTKCLRKKIPR 14
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RESULT 2

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US-09-824-807-5
; Sequence 5, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-824-807-5

  Query Match             100.0%;  Score 73;  DB 9;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 6.9e-06;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
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Db          1 SARGTKCLRKKIPR 14


RESULT 3
US-09-824-647-5
; Sequence 5, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-824-647-5

  Query Match             100.0%;  Score 73;  DB 9;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 6.9e-06;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 SARGTKCLRKKIPR 14


RESULT 4
US-10-218-509-5
; Sequence 5, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-10-218-509-5

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  Best Local Similarity   100.0%;  Pred. No. 6.9e-06;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 SARGTKCLRKKIPR 14


RESULT 5
US-10-281-160-5
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; Publication No. US20030108950A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-10-281-160-5

  Query Match             100.0%;  Score 73;  DB 14;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 6.9e-06;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
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Db          1 SARGTKCLRKKIPR 14
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RESULT 6
US-10-321-587-5
; Sequence 5, Application US/10321587
; Publication No. US20030215445A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-10-321-587-5

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  Best Local Similarity   100.0%;  Pred. No. 6.9e-06;
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Qy          1 SARGTKCLRKKIPR 14
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Db          1 SARGTKCLRKKIPR 14


RESULT 7
US-09-813-156-2
; Sequence 2, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-813-156-2

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  Best Local Similarity   100.0%;  Pred. No. 0.00027;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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RESULT 8
US-09-824-807-2
; Sequence 2, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-824-807-2

  Query Match             100.0%;  Score 73;  DB 9;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.00027;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||||||||||||||
Db        562 SARGTKCLRKKIPR 575


RESULT 9
US-09-824-647-2
; Sequence 2, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-824-647-2

  Query Match             100.0%;  Score 73;  DB 9;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.00027;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
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Db        562 SARGTKCLRKKIPR 575


RESULT 10
US-10-218-509-2
; Sequence 2, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
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;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-10-218-509-2

  Query Match             100.0%;  Score 73;  DB 14;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.00027;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
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Db        562 SARGTKCLRKKIPR 575


RESULT 11
US-10-281-160-2
; Sequence 2, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-10-281-160-2

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  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
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Db        562 SARGTKCLRKKIPR 575


RESULT 12
US-10-321-587-2
; Sequence 2, Application US/10321587
; Publication No. US20030215445A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-10-321-587-2

  Query Match             100.0%;  Score 73;  DB 15;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.00027;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
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Db        562 SARGTKCLRKKIPR 575


RESULT 13
US-10-262-473-6
; Sequence 6, Application US/10262473
; Publication No. US20030199442A1
; GENERAL INFORMATION:
;  APPLICANT: Alsobrook, John,
;  APPLICANT:  Burgess, Catherine,
;  APPLICANT:  Gorman, Linda,
;  APPLICANT:  Guo, Xiaojia,
;  APPLICANT:  Lepley, Denise,
;  APPLICANT:  Patturajan, Meera,
;  APPLICANT:  Rastelli, Luca,
;  APPLICANT:  Reiger, Daniel,
;  APPLICANT:  Spytek, Kimberly,
;  APPLICANT:  Zhong, Mei
;  TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHO
;  FILE REFERENCE: 21402-462B
;  CURRENT APPLICATION NUMBER: US/10/262,473
;  CURRENT FILING DATE:  2003-01-28
;  PRIOR APPLICATION NUMBER: 60/327,917
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/328,029
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/328,056
;  PRIOR FILING DATE: 2001-10-09
;  PRIOR APPLICATION NUMBER: 60/349,575
;  PRIOR FILING DATE: 2001-10-29
;  PRIOR APPLICATION NUMBER: 60/381,038
;  PRIOR FILING DATE: 2002-05-16
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 6
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-262-473-6

  Query Match             79.5%;  Score 58;  DB 14;  Length 593;
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  Matches   10;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
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Db        566 AARGTKCLRREAPR 579


RESULT 14
US-09-925-301-1416
; Sequence 1416, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA106
;  CURRENT APPLICATION NUMBER: US/09/925,301
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05882
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1694
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1416
;   LENGTH: 621
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-925-301-1416
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  Best Local Similarity   71.4%;  Pred. No. 0.12;
  Matches   10;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
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Db        594 AARGTKCLRREAPR 607


RESULT 15
US-09-813-156-7
; Sequence 7, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Human granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of human GP88 used to develop
;   OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-09-813-156-7

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  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RGTKCLRKKIPR 14
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Db          3 RGTKCLRREAPR 14


Search completed: March 26, 2004, 12:48:34
Job time : 31.4308 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:27:45 ; Search time 26.7692 Seconds
(without alignments)
117.297 Million cell updates/sec

Title: US-09-824-647-4
Perfect score: 69
Sequence: 1 PDAKTQCPDDST 12

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1065169 seqs, 261661801 residues

Total number of hits satisfying chosen parameters: 1065169

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	69	100.0	12	9	US-09-813-156-4	Sequence 4, Appli
2	69	100.0	12	9	US-09-824-807-4	Sequence 4, Appli
3	69	100.0	12	9	US-09-824-647-4	Sequence 4, Appli
4	69	100.0	12	14	US-10-218-509-4	Sequence 4, Appli
5	69	100.0	12	14	US-10-281-160-4	Sequence 4, Appli
6	69	100.0	12	15	US-10-321-587-4	Sequence 4, Appli
7	69	100.0	589	9	US-09-813-156-2	Sequence 2, Appli
8	69	100.0	589	9	US-09-824-807-2	Sequence 2, Appli
9	69	100.0	589	9	US-09-824-647-2	Sequence 2, Appli
10	69	100.0	589	14	US-10-218-509-2	Sequence 2, Appli
11	69	100.0	589	14	US-10-281-160-2	Sequence 2, Appli
12	69	100.0	589	15	US-10-321-587-2	Sequence 2, Appli
13	51	73.9	593	9	US-09-813-156-17	Sequence 17, Appl
14	51	73.9	593	9	US-09-824-807-17	Sequence 17, Appl
15	51	73.9	593	9	US-09-824-647-17	Sequence 17, Appl
16	51	73.9	593	14	US-10-218-509-17	Sequence 17, Appl
17	51	73.9	593	14	US-10-281-160-17	Sequence 17, Appl
18	51	73.9	593	14	US-10-262-473-6	Sequence 6, Appli
19	51	73.9	593	15	US-10-321-587-17	Sequence 17, Appl
20	51	73.9	621	9	US-09-925-301-1416	Sequence 1416, Ap
21	44	63.8	364	15	US-10-369-493-19208	Sequence 19208, A
22	43	62.3	189	14	US-10-262-473-8	Sequence 8, Appli
23	43	62.3	318	15	US-10-369-493-5246	Sequence 5246, Ap
24	40	58.0	779	12	US-10-282-122A-61669	Sequence 61669, A
25	38	55.1	37	9	US-09-864-761-44137	Sequence 44137, A
26	38	55.1	93	12	US-10-424-599-176853	Sequence 176853,
27	38	55.1	94	9	US-09-789-561-129	Sequence 129, App
28	38	55.1	94	11	US-09-833-245-2115	Sequence 2115, Ap
29	38	55.1	706	15	US-10-369-493-17066	Sequence 17066, A
30	38	55.1	726	12	US-10-425-114-54008	Sequence 54008, A
31	38	55.1	1283	15	US-10-369-493-6817	Sequence 6817, Ap
32	37	53.6	79	12	US-10-424-599-169801	Sequence 169801,
33	37	53.6	115	12	US-10-424-599-231113	Sequence 231113,
34	37	53.6	118	15	US-10-393-840-130	Sequence 130, App
35	37	53.6	193	12	US-10-425-114-46784	Sequence 46784, A
36	37	53.6	398	9	US-09-864-761-37818	Sequence 37818, A
37	37	53.6	416	14	US-10-029-386-33414	Sequence 33414, A
38	37	53.6	418	12	US-10-424-599-186411	Sequence 186411,
39	37	53.6	431	12	US-10-425-114-51428	Sequence 51428, A
40	37	53.6	791	12	US-10-282-122A-61149	Sequence 61149, A
41	37	53.6	791	15	US-10-104-047-2307	Sequence 2307, Ap
42	37	53.6	1220	15	US-10-168-659-13	Sequence 13, Appl
43	36.5	52.9	356	15	US-10-369-493-10419	Sequence 10419, A
44	36	52.2	38	14	US-10-133-128-145	Sequence 145, App
45	36	52.2	38	14	US-10-289-660-145	Sequence 145, App

ALIGNMENTS

RESULT 1
US-09-813-156-4
; Sequence 4, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 12
; TYPE: PRT
; ORGANISM: mouse granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(12)
; OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
; OTHER INFORMATION: antisera against the GP88 used in the
; OTHER INFORMATION: immunoaffinity step.
US-09-813-156-4

Query Match 100.0%; Score 69; DB 9; Length 12;
Best Local Similarity 100.0%; Pred. No. 9.2e-05;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          1 PDAKTQCPDDST 12
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RESULT 2

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US-09-824-807-4
; Sequence 4, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(12)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-824-807-4

  Query Match             100.0%;  Score 69;  DB 9;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 9.2e-05;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
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Db          1 PDAKTQCPDDST 12


RESULT 3
US-09-824-647-4
; Sequence 4, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(12)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-824-647-4

  Query Match             100.0%;  Score 69;  DB 9;  Length 12;
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  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 PDAKTQCPDDST 12


RESULT 4
US-10-218-509-4
; Sequence 4, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(12)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-10-218-509-4

  Query Match             100.0%;  Score 69;  DB 14;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 9.2e-05;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
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Db          1 PDAKTQCPDDST 12


RESULT 5
US-10-281-160-4
; Sequence 4, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(12)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-10-281-160-4

  Query Match             100.0%;  Score 69;  DB 14;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 9.2e-05;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
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Db          1 PDAKTQCPDDST 12
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RESULT 6
US-10-321-587-4
; Sequence 4, Application US/10321587
; Publication No. US20030215445A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(12)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-10-321-587-4

  Query Match             100.0%;  Score 69;  DB 15;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 9.2e-05;
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Qy          1 PDAKTQCPDDST 12
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Db          1 PDAKTQCPDDST 12


RESULT 7
US-09-813-156-2
; Sequence 2, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-813-156-2

  Query Match             100.0%;  Score 69;  DB 9;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0053;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
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Db        208 PDAKTQCPDDST 219


RESULT 8
US-09-824-807-2
; Sequence 2, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-824-807-2

  Query Match             100.0%;  Score 69;  DB 9;  Length 589;
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  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
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Db        208 PDAKTQCPDDST 219


RESULT 9
US-09-824-647-2
; Sequence 2, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-824-647-2

  Query Match             100.0%;  Score 69;  DB 9;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0053;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db        208 PDAKTQCPDDST 219


RESULT 10
US-10-218-509-2
; Sequence 2, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
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;   LENGTH: 589
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;   ORGANISM: Mouse epithelin/granulin
US-10-218-509-2

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RESULT 11
US-10-281-160-2
; Sequence 2, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
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;   ORGANISM: Mouse epithelin/granulin
US-10-281-160-2

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RESULT 12
US-10-321-587-2
; Sequence 2, Application US/10321587
; Publication No. US20030215445A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
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;   LENGTH: 589
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US-10-321-587-2

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RESULT 13
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; Sequence 17, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-813-156-17

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Db        209 PDARSRCPDGST 220


RESULT 14
US-09-824-807-17
; Sequence 17, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
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; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-824-807-17

  Query Match             73.9%;  Score 51;  DB 9;  Length 593;
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RESULT 15
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; Sequence 17, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
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;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-824-647-17

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Db        209 PDARSRCPDGST 220


Search completed: March 26, 2004, 12:48:34
Job time : 27.9692 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:27:45 ; Search time 42.3846 Seconds
(without alignments)
117.297 Million cell updates/sec

Title: US-09-824-647-3
Perfect score: 96
Sequence: 1 KKVIAPRRLPDPQILKSDT 19

Scoring table: BLOSUM62
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Searched: 1065169 seqs, 261661801 residues

Total number of hits satisfying chosen parameters: 1065169

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
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2	96	100.0	19	9	US-09-824-807-3	Sequence 3, Appli
3	96	100.0	19	9	US-09-824-647-3	Sequence 3, Appli
4	96	100.0	19	14	US-10-218-509-3	Sequence 3, Appli
5	96	100.0	19	14	US-10-281-160-3	Sequence 3, Appli
6	96	100.0	19	15	US-10-321-587-3	Sequence 3, Appli
7	89	92.7	589	9	US-09-813-156-2	Sequence 2, Appli
8	89	92.7	589	9	US-09-824-807-2	Sequence 2, Appli
9	89	92.7	589	9	US-09-824-647-2	Sequence 2, Appli
10	89	92.7	589	14	US-10-218-509-2	Sequence 2, Appli
11	89	92.7	589	14	US-10-281-160-2	Sequence 2, Appli
12	89	92.7	589	15	US-10-321-587-2	Sequence 2, Appli
13	47	49.0	92	9	US-09-800-971-11	Sequence 11, Appl
14	47	49.0	189	12	US-10-425-114-60601	Sequence 60601, A
15	46	47.9	824	14	US-10-226-844-1	Sequence 1, Appli
16	46	47.9	824	14	US-10-210-951-58	Sequence 58, Appl
17	46	47.9	824	14	US-10-211-884-58	Sequence 58, Appl
18	44	45.8	19	9	US-09-813-156-6	Sequence 6, Appli
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21	44	45.8	19	14	US-10-218-509-6	Sequence 6, Appli
22	44	45.8	19	14	US-10-281-160-6	Sequence 6, Appli
23	44	45.8	19	15	US-10-321-587-6	Sequence 6, Appli
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31	44	45.8	593	15	US-10-321-587-17	Sequence 17, Appl
32	44	45.8	593	15	US-10-369-493-3753	Sequence 3753, Ap
33	44	45.8	621	9	US-09-925-301-1416	Sequence 1416, Ap
34	44	45.8	753	12	US-10-425-114-58733	Sequence 58733, A
35	43	44.8	238	12	US-10-425-114-59562	Sequence 59562, A
36	43	44.8	434	12	US-10-425-114-70140	Sequence 70140, A
37	43	44.8	439	12	US-10-425-114-65495	Sequence 65495, A
38	43	44.8	444	12	US-10-425-114-71267	Sequence 71267, A
39	43	44.8	560	15	US-10-369-493-2184	Sequence 2184, Ap
40	43	44.8	595	10	US-09-849-138-2	Sequence 2, Appli
41	43	44.8	595	10	US-09-849-138-4	Sequence 4, Appli
42	43	44.8	595	10	US-09-849-138-6	Sequence 6, Appli
43	43	44.8	596	9	US-09-797-039-8	Sequence 8, Appli
44	43	44.8	596	10	US-09-849-138-8	Sequence 8, Appli
45	43	44.8	596	10	US-09-849-138-31	Sequence 31, Appl

ALIGNMENTS

RESULT 1
US-09-813-156-3
; Sequence 3, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 19
; TYPE: PRT
; ORGANISM: mouse granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(19)
; OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
; OTHER INFORMATION: antisera against the GP88 used in the
; OTHER INFORMATION: immunoaffinity step.
US-09-813-156-3

Query Match 100.0%; Score 96; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 5e-08;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKVIAPRRLPDPQILKSDT 19
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Db 1 KKVIAPRRLPDPQILKSDT 19

RESULT 2

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US-09-824-807-3
; Sequence 3, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-824-807-3

  Query Match           100.0%;  Score 96;  DB 9;  Length 19;
  Best Local Similarity  100.0%;  Pred. No. 5e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 KKVIAPRRLPDPQILKSDT 19


RESULT 3
US-09-824-647-3
; Sequence 3, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-824-647-3

  Query Match           100.0%;  Score 96;  DB 9;  Length 19;
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RESULT 4
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; Sequence 3, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-10-218-509-3

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Db          1 KKVIAPRRLPDPQILKSDT 19


RESULT 5
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;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 19
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;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-10-281-160-3

  Query Match           100.0%;  Score 96;  DB 14;  Length 19;
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Db          1 KKVIAPRRLPDPQILKSDT 19
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;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-10-321-587-3

  Query Match             100.0%;  Score 96;  DB 15;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 5e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              ||||||||||||||||||||
Db          1 KKVIAPRRLPDPQILKSDT 19


RESULT 7
US-09-813-156-2
; Sequence 2, Application US/09813156
; Patent No. US20020061859A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-813-156-2

  Query Match             92.7%;  Score 89;  DB 9;  Length 589;
  Best Local Similarity   94.7%;  Pred. No. 2.1e-05;
  Matches   18;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||| ||||||||||||
Db        344 KKVIAPLRLPDPQILKSDT 362


RESULT 8
US-09-824-807-2
; Sequence 2, Application US/09824807
; Patent No. US20020094966A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,807
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-824-807-2

  Query Match             92.7%;  Score 89;  DB 9;  Length 589;
  Best Local Similarity   94.7%;  Pred. No. 2.1e-05;
  Matches   18;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||| ||||||||||||
Db        344 KKVIAPLRLPDPQILKSDT 362


RESULT 9
US-09-824-647-2
; Sequence 2, Application US/09824647
; Publication No. US20020183270A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/824,647
;  CURRENT FILING DATE:  2001-04-04
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-824-647-2

  Query Match             92.7%;  Score 89;  DB 9;  Length 589;
  Best Local Similarity   94.7%;  Pred. No. 2.1e-05;
  Matches   18;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||| ||||||||||||
Db        344 KKVIAPLRLPDPQILKSDT 362


RESULT 10
US-10-218-509-2
; Sequence 2, Application US/10218509
; Publication No. US20030092661A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/218,509
;  CURRENT FILING DATE:  2002-08-15
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
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;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-10-218-509-2

  Query Match             92.7%;  Score 89;  DB 14;  Length 589;
  Best Local Similarity   94.7%;  Pred. No. 2.1e-05;
  Matches   18;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||| ||||||||||||
Db        344 KKVIAPLRLPDPQILKSDT 362


RESULT 11
US-10-281-160-2
; Sequence 2, Application US/10281160
; Publication No. US20030108950A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/281,160
;  CURRENT FILING DATE:  2002-10-28
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-10-281-160-2

  Query Match             92.7%;  Score 89;  DB 14;  Length 589;
  Best Local Similarity   94.7%;  Pred. No. 2.1e-05;
  Matches   18;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||| ||||||||||||
Db        344 KKVIAPLRLPDPQILKSDT 362


RESULT 12
US-10-321-587-2
; Sequence 2, Application US/10321587
; Publication No. US20030215445A1
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/10/321,587
;  CURRENT FILING DATE:  2002-12-18
;  PRIOR APPLICATION NUMBER: US/08/991,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: PRIOR  FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-10-321-587-2

  Query Match             92.7%;  Score 89;  DB 15;  Length 589;
  Best Local Similarity   94.7%;  Pred. No. 2.1e-05;
  Matches   18;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||| ||||||||||||
Db        344 KKVIAPLRLPDPQILKSDT 362


RESULT 13
US-09-800-971-11
; Sequence 11, Application US/09800971
; Patent No. US20020098577A1
; GENERAL INFORMATION:
;  APPLICANT: Rachel A. Meyers
;  TITLE OF INVENTION: 16835, A NOVEL HUMAN PHOSPHOLIPASE C
;  TITLE OF INVENTION:  FAMILY MEMBER AND USES THEREOF
;  FILE REFERENCE: 10448-023001
;  CURRENT APPLICATION NUMBER: US/09/800,971
;  CURRENT FILING DATE:  2001-03-06
;  PRIOR APPLICATION NUMBER: 60/187,453
;  PRIOR FILING DATE: 2000-03-07
;  PRIOR APPLICATION NUMBER: 60/188,032
;  PRIOR FILING DATE: 2000-03-09
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
;   LENGTH: 92
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: consensus sequence
US-09-800-971-11

  Query Match             49.0%;  Score 47;  DB 9;  Length 92;
  Best Local Similarity   50.0%;  Pred. No. 10;
  Matches    9;  Conservative    3;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          2 KVIAPRRLPDPQILKSDT 19
              |:|: | |||| :  | |
Db          5 KIISARNLPDPYVKVSKT 22


RESULT 14
US-10-425-114-60601
; Sequence 60601, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 60601
;   LENGTH: 189
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3597-065-F8_FLI.pep
US-10-425-114-60601

  Query Match             49.0%;  Score 47;  DB 12;  Length 189;
  Best Local Similarity   47.1%;  Pred. No. 21;
  Matches    8;  Conservative    5;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKS 17
              ::| || | |||: |::
Db        160 QRVCAPTRTPDPEALQA 176
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RESULT 15
US-10-226-844-1
; Sequence 1, Application US/10226844
; Publication No. US20030113764A1
; GENERAL INFORMATION:
;  APPLICANT: Bodary, Sarah C.
;  APPLICANT:  Fisher, Karen L.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT OF TUMORS
;  FILE REFERENCE: P1773R1
;  CURRENT APPLICATION NUMBER: US/10/226,844
;  CURRENT FILING DATE:  2002-08-22
;  PRIOR APPLICATION NUMBER: US/09/627,202
;  PRIOR FILING DATE: 2000-07-27
;  PRIOR APPLICATION NUMBER: US 60/146,217
;  PRIOR FILING DATE: 1999-07-28
;  NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 1
;   LENGTH: 824
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-226-844-1

  Query Match           47.9%;  Score 46;  DB 14;  Length 824;
  Best Local Similarity  43.8%;  Pred. No. 1.4e+02;
  Matches    7;  Conservative    6;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 KVIAPRRLPDPQILKS 17
              :|: ||||| |:: ::
Db         30 EVVLPRRLPGPRVRRA 45


Search completed: March 26, 2004, 12:48:33
Job time : 42.5846 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:23:20 ; Search time 15.5897 Seconds
(without alignments)
62.919 Million cell updates/sec

Title: US-09-824-647-6
Perfect score: 98
Sequence: 1 EKAPAHLSLPDPQALKRDV 19

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	98	100.0	19	4	US-08-991-862-6	Sequence 6, Appli
2	98	100.0	19	4	US-09-813-156-6	Sequence 6, Appli
3	98	100.0	593	1	US-07-668-648-4	Sequence 4, Appli
4	98	100.0	593	2	US-08-429-998-4	Sequence 4, Appli
5	98	100.0	593	2	US-08-431-333-4	Sequence 4, Appli
6	98	100.0	593	4	US-08-991-862-17	Sequence 17, Appl
7	98	100.0	593	4	US-09-813-156-17	Sequence 17, Appl
8	98	100.0	593	5	PCT-US91-02321-4	Sequence 4, Appli
9	63	64.3	589	1	US-07-668-648-2	Sequence 2, Appli
10	63	64.3	589	2	US-08-429-998-2	Sequence 2, Appli
11	63	64.3	589	2	US-08-431-333-2	Sequence 2, Appli
12	63	64.3	589	5	PCT-US91-02321-2	Sequence 2, Appli
13	53	54.1	179	1	US-07-668-648-8	Sequence 8, Appli
14	53	54.1	179	2	US-08-429-998-8	Sequence 8, Appli
15	53	54.1	179	2	US-08-431-333-8	Sequence 8, Appli
16	53	54.1	179	5	PCT-US91-02321-8	Sequence 8, Appli
17	50	51.0	589	4	US-08-991-862-2	Sequence 2, Appli
18	50	51.0	589	4	US-09-813-156-2	Sequence 2, Appli
19	44	44.9	19	4	US-08-991-862-3	Sequence 3, Appli
20	44	44.9	19	4	US-09-813-156-3	Sequence 3, Appli
21	44	44.9	188	4	US-09-489-039A-12034	Sequence 12034, A
22	44	44.9	238	4	US-09-489-039A-7819	Sequence 7819, Ap
23	44	44.9	493	4	US-09-252-991A-23421	Sequence 23421, A
24	44	44.9	589	1	US-07-668-648-6	Sequence 6, Appli
25	44	44.9	589	2	US-08-429-998-6	Sequence 6, Appli
26	44	44.9	589	2	US-08-431-333-6	Sequence 6, Appli
27	44	44.9	589	5	PCT-US91-02321-6	Sequence 6, Appli
28	43.5	44.4	368	4	US-09-252-991A-25012	Sequence 25012, A
29	43.5	44.4	804	4	US-09-252-991A-23789	Sequence 23789, A
30	43	43.9	55	4	US-09-621-976-5483	Sequence 5483, Ap
31	43	43.9	183	4	US-09-252-991A-23725	Sequence 23725, A
32	43	43.9	479	4	US-09-723-368-2	Sequence 2, Appli
33	43	43.9	622	4	US-09-328-352-7970	Sequence 7970, Ap
34	42	42.9	141	4	US-09-252-991A-27362	Sequence 27362, A
35	42	42.9	252	4	US-09-252-991A-24259	Sequence 24259, A
36	41.5	42.3	423	4	US-09-252-991A-22774	Sequence 22774, A
37	41	41.8	242	4	US-09-328-352-6208	Sequence 6208, Ap
38	41	41.8	297	4	US-09-489-039A-8167	Sequence 8167, Ap
39	41	41.8	409	3	US-08-807-342B-8	Sequence 8, Appli
40	41	41.8	745	1	US-08-136-277-2	Sequence 2, Appli
41	41	41.8	745	2	US-08-479-403-2	Sequence 2, Appli
42	41	41.8	745	3	US-08-835-734-2	Sequence 2, Appli
43	40.5	41.3	219	4	US-09-252-991A-29488	Sequence 29488, A
44	40.5	41.3	408	3	US-09-315-793-32	Sequence 32, Appl
45	40	40.8	110	4	US-09-540-236-2859	Sequence 2859, Ap

ALIGNMENTS

RESULT 1
US-08-991-862-6
; Sequence 6, Application US/08991862
; Patent No. 6309826 anti plasmin
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/08/991,862
; CURRENT FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 08/863,862
; EARLIER FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(19)
; OTHER INFORMATION: Internal peptide of human GP88 used to develop
; OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-08-991-862-6

Query Match 100.0%; Score 98; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e-09;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EKAPAHLSLPDPQALKRDV 19
||||||||||||||||||||
Db 1 EKAPAHLSLPDPQALKRDV 19

RESULT 2
US-09-813-156-6
; Sequence 6, Application US/09813156
; Patent No. 6670183 method of dx
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0

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; SEQ ID NO 6
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Human granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of human GP88 used to develop
;   OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-09-813-156-6

  Query Match            100.0%;  Score 98;  DB 4;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 1.3e-09;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db          1 EKAPAHLSLPDPQALKRDV 19


RESULT 3
US-07-668-648-4
; Sequence 4, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-4

  Query Match            100.0%;  Score 98;  DB 1;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 7.4e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 4
US-08-429-998-4
; Sequence 4, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-4

  Query Match            100.0%;  Score 98;  DB 2;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 7.4e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 5
US-08-431-333-4
; Sequence 4, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
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;       APPLICATION NUMBER:  US/08/431,333
;       FILING DATE:  27-APR-1995
;       CLASSIFICATION:  536
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/668,648
;       FILING DATE:  13-MAR-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Misrock, S. Leslie
;       REGISTRATION NUMBER:  18,872
;       REFERENCE/DOCKET NUMBER:  5624-161-999
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212)790-9090
;       TELEFAX:  (212) 869-9741
;   INFORMATION FOR SEQ ID NO:  4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  593 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-431-333-4

  Query Match             100.0%;  Score 98;  DB 2;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 7.4e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 6
US-08-991-862-17
; Sequence 17, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-08-991-862-17

  Query Match             100.0%;  Score 98;  DB 4;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 7.4e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 7
US-09-813-156-17
; Sequence 17, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 593
;   TYPE: PRT
;   ORGANISM: Human GP88 cDNA
US-09-813-156-17

  Query Match             100.0%;  Score 98;  DB 4;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 7.4e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 8
PCT-US91-02321-4
; Sequence 4, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-4

  Query Match             100.0%;  Score 98;  DB 5;  Length 593;
  Best Local Similarity   100.0%;  Pred. No. 7.4e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              |||||||||||||||||||
Db        346 EKAPAHLSLPDPQALKRDV 364


RESULT 9
US-07-668-648-2
; Sequence 2, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
```

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;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-2

  Query Match             64.3%;  Score 63;  DB 1;  Length 589;
  Best Local Similarity   68.4%;  Pred. No. 0.036;
  Matches   13;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              :|  | ||||||| || ||
Db        344 KKVTASLSLPDPQILKNDV 362


RESULT 10
US-08-429-998-2
; Sequence 2, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-2

  Query Match             64.3%;  Score 63;  DB 2;  Length 589;
  Best Local Similarity   68.4%;  Pred. No. 0.036;
  Matches   13;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              :|  | ||||||| || ||
Db        344 KKVTASLSLPDPQILKNDV 362


RESULT 11
US-08-431-333-2
; Sequence 2, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/431,333
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-431-333-2

  Query Match             64.3%;  Score 63;  DB 2;  Length 589;
  Best Local Similarity   68.4%;  Pred. No. 0.036;
  Matches   13;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              :|  | ||||||| || ||
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Db        344 KKVTASLSLPDPQILKNDV 362


RESULT 12
PCT-US91-02321-2
; Sequence 2, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-2

  Query Match             64.3%;  Score 63;  DB 5;  Length 589;
  Best Local Similarity   68.4%;  Pred. No. 0.036;
  Matches   13;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              :|  | ||||||| || ||
Db        344 KKVTASLSLPDPQILKNDV 362


RESULT 13
US-07-668-648-8
; Sequence 8, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  179 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-8

  Query Match             54.1%;  Score 53;  DB 1;  Length 179;
  Best Local Similarity   63.2%;  Pred. No. 0.38;
  Matches   12;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              :|||||||| |  |:: ||
Db        118 KKAPAHLSLLDLGAVEGDV 136


RESULT 14
US-08-429-998-8
; Sequence 8, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  179 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-8
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  Query Match           54.1%;  Score 53;  DB 2;  Length 179;
  Best Local Similarity  63.2%;  Pred. No. 0.38;
  Matches   12;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              :|||||||| |  |:: ||
Db        118 KKAPAHLSLLDLGAVEGDV 136


RESULT 15
US-08-431-333-8
; Sequence 8, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mchammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/431,333
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  179 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-431-333-8

  Query Match           54.1%;  Score 53;  DB 2;  Length 179;
  Best Local Similarity  63.2%;  Pred. No. 0.38;
  Matches   12;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 EKAPAHLSLPDPQALKRDV 19
              :|||||||| |  |:: ||
Db        118 KKAPAHLSLLDLGAVEGDV 136


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Job time : 16.5897 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:23:20 ; Search time 11.4872 Seconds
(without alignments)
62.919 Million cell updates/sec

Title: US-09-824-647-7
Perfect score: 74
Sequence: 1 ARRGTKCLRREAPR 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	74	100.0	14	4	US-08-991-862-7	Sequence 7, Appli
2	74	100.0	14	4	US-09-813-156-7	Sequence 7, Appli
3	74	100.0	593	4	US-08-991-862-17	Sequence 17, Appl
4	74	100.0	593	4	US-09-813-156-17	Sequence 17, Appl
5	68	91.9	593	1	US-07-668-648-4	Sequence 4, Appli
6	68	91.9	593	2	US-08-429-998-4	Sequence 4, Appli
7	68	91.9	593	2	US-08-431-333-4	Sequence 4, Appli
8	68	91.9	593	5	PCT-US91-02321-4	Sequence 4, Appli
9	53	71.6	14	4	US-08-991-862-5	Sequence 5, Appli
10	53	71.6	14	4	US-09-813-156-5	Sequence 5, Appli
11	53	71.6	589	1	US-07-668-648-6	Sequence 6, Appli
12	53	71.6	589	2	US-08-429-998-6	Sequence 6, Appli
13	53	71.6	589	2	US-08-431-333-6	Sequence 6, Appli
14	53	71.6	589	4	US-08-991-862-2	Sequence 2, Appli
15	53	71.6	589	4	US-09-813-156-2	Sequence 2, Appli
16	53	71.6	589	5	PCT-US91-02321-6	Sequence 6, Appli
17	51	68.9	589	1	US-07-668-648-2	Sequence 2, Appli
18	51	68.9	589	2	US-08-429-998-2	Sequence 2, Appli
19	51	68.9	589	2	US-08-431-333-2	Sequence 2, Appli
20	51	68.9	589	5	PCT-US91-02321-2	Sequence 2, Appli
21	46	62.2	327	4	US-09-252-991A-16720	Sequence 16720, A
22	44	59.5	261	4	US-09-252-991A-33140	Sequence 33140, A
23	43	58.1	145	4	US-09-252-991A-18653	Sequence 18653, A
24	42	56.8	236	4	US-09-252-991A-29311	Sequence 29311, A
25	42	56.8	551	4	US-09-252-991A-26416	Sequence 26416, A
26	41	55.4	107	4	US-09-489-039A-11041	Sequence 11041, A
27	41	55.4	113	4	US-09-199-637A-307	Sequence 307, App
28	41	55.4	252	4	US-09-252-991A-19905	Sequence 19905, A
29	41	55.4	301	3	US-09-230-421-2	Sequence 2, Appli
30	41	55.4	1083	4	US-09-394-272-11	Sequence 11, Appl
31	40	54.1	121	4	US-09-252-991A-30495	Sequence 30495, A
32	40	54.1	151	4	US-09-252-991A-32108	Sequence 32108, A
33	40	54.1	218	4	US-09-252-991A-29904	Sequence 29904, A
34	40	54.1	299	4	US-09-252-991A-21789	Sequence 21789, A
35	40	54.1	326	4	US-09-252-991A-21574	Sequence 21574, A
36	40	54.1	341	4	US-09-252-991A-32656	Sequence 32656, A
37	40	54.1	369	4	US-09-252-991A-32123	Sequence 32123, A
38	40	54.1	422	2	US-08-712-072C-2	Sequence 2, Appli
39	40	54.1	481	4	US-09-252-991A-25586	Sequence 25586, A
40	40	54.1	490	4	US-09-252-991A-16991	Sequence 16991, A
41	40	54.1	775	4	US-09-252-991A-22300	Sequence 22300, A
42	40	54.1	1156	3	US-08-996-083-1	Sequence 1, Appli
43	40	54.1	1156	3	US-09-429-516-1	Sequence 1, Appli
44	40	54.1	1156	3	US-09-429-516-3	Sequence 3, Appli
45	40	54.1	1238	4	US-09-252-991A-26363	Sequence 26363, A

ALIGNMENTS

RESULT 1
US-08-991-862-7
; Sequence 7, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/08/991,862
; CURRENT FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 08/863,862
; EARLIER FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Human granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(14)
; OTHER INFORMATION: Internal peptide of human GP88 used to develop
; OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-08-991-862-7

Query Match 100.0%; Score 74; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 1.6e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARRGTKCLRREAPR 14
||||||||||||||
Db 1 ARRGTKCLRREAPR 14

RESULT 2
US-09-813-156-7
; Sequence 7, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 7
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Human granulin
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(14)
; OTHER INFORMATION: Internal peptide of human GP88 used to develop
; OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-09-813-156-7

Query Match 100.0%; Score 74; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 1.6e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARRGTKCLRREAPR 14
||||||||||||||
Db 1 ARRGTKCLRREAPR 14

RESULT 3
US-08-991-862-17
; Sequence 17, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/08/991,862
; CURRENT FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 08/863,862
; EARLIER FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Human GP88 cDNA
US-08-991-862-17

Query Match 100.0%; Score 74; DB 4; Length 593;
Best Local Similarity 100.0%; Pred. No. 6.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARRGTKCLRREAPR 14
||||||||||||||
Db 566 ARRGTKCLRREAPR 579

RESULT 4
US-09-813-156-17
; Sequence 17, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Human GP88 cDNA
US-09-813-156-17

Query Match 100.0%; Score 74; DB 4; Length 593;
Best Local Similarity 100.0%; Pred. No. 6.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARRGTKCLRREAPR 14
||||||||||||||
Db 566 ARRGTKCLRREAPR 579

RESULT 5
US-07-668-648-4
; Sequence 4, Application US/07668648
; Patent No. 5416192
; GENERAL INFORMATION:
; APPLICANT: Shoyab, Mohammed
; APPLICANT: Plowman, Gregory D.
; TITLE OF INVENTION: EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
; TITLE OF INVENTION: MODULATING PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/668,648
; FILING DATE: 19910819
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Misrock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 5624-161-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212) 869-9741
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 593 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-668-648-4

Query Match 91.9%; Score 68; DB 1; Length 593;
Best Local Similarity 92.9%; Pred. No. 0.0007;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ARRGTKCLRREAPR 14
| ||||||||||||
Db 566 AARGTKCLRREAPR 579

RESULT 6
US-08-429-998-4
; Sequence 4, Application US/08429998
; Patent No. 5885961
; GENERAL INFORMATION:
; APPLICANT: Shoyab, Mohammed
; APPLICANT: Plowman, Gregory D.
; TITLE OF INVENTION: EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
; TITLE OF INVENTION: MODULATING PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA

```
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-4

  Query Match             91.9%;  Score 68;  DB 2;  Length 593;
  Best Local Similarity   92.9%;  Pred. No. 0.0007;
  Matches   13;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 ARRGTKCLRREAPR 14
              | ||||||||||||
Db        566 AARGTKCLRREAPR 579


RESULT 7
US-08-431-333-4
; Sequence 4, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/431,333
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-431-333-4

  Query Match             91.9%;  Score 68;  DB 2;  Length 593;
  Best Local Similarity   92.9%;  Pred. No. 0.0007;
  Matches   13;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 ARRGTKCLRREAPR 14
              | ||||||||||||
Db        566 AARGTKCLRREAPR 579


RESULT 8
PCT-US91-02321-4
; Sequence 4, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-4

  Query Match             91.9%;  Score 68;  DB 5;  Length 593;
  Best Local Similarity   92.9%;  Pred. No. 0.0007;
  Matches   13;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 ARRGTKCLRREAPR 14
              | ||||||||||||
Db        566 AARGTKCLRREAPR 579


RESULT 9
US-08-991-862-5
; Sequence 5, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
```

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;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-08-991-862-5

  Query Match             71.6%;  Score 53;  DB 4;  Length 14;
  Best Local Similarity   75.0%;  Pred. No. 0.0065;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RGTKCLRREAPR 14
              |||||||:: ||
Db          3 RGTKCLRKKIPR 14


RESULT 10
US-09-813-156-5
; Sequence 5, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-813-156-5

  Query Match             71.6%;  Score 53;  DB 4;  Length 14;
  Best Local Similarity   75.0%;  Pred. No. 0.0065;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RGTKCLRREAPR 14
              |||||||:: ||
Db          3 RGTKCLRKKIPR 14


RESULT 11
US-07-668-648-6
; Sequence 6, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-6

  Query Match             71.6%;  Score 53;  DB 1;  Length 589;
  Best Local Similarity   75.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RGTKCLRREAPR 14
              |||||||:: ||
Db        564 RGTKCLRKKIPR 575


RESULT 12
US-08-429-998-6
; Sequence 6, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
```

```
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-6

  Query Match             71.6%;  Score 53;  DB 2;  Length 589;
  Best Local Similarity   75.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RGTKCLRREAPR 14
              |||||||:: ||
Db        564 RGTKCLRKKIPR 575


RESULT 13
US-08-431-333-6
; Sequence 6, Application US/08431333
; Patent No. 5965723
; GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/431,333
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-431-333-6

  Query Match             71.6%;  Score 53;  DB 2;  Length 589;
  Best Local Similarity   75.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RGTKCLRREAPR 14
              |||||||:: ||
Db        564 RGTKCLRKKIPR 575


RESULT 14
US-08-991-862-2
; Sequence 2, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-08-991-862-2

  Query Match             71.6%;  Score 53;  DB 4;  Length 589;
  Best Local Similarity   75.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RGTKCLRREAPR 14
              |||||||:: ||
Db        564 RGTKCLRKKIPR 575


RESULT 15
US-09-813-156-2
; Sequence 2, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-813-156-2

  Query Match             71.6%;  Score 53;  DB 4;  Length 589;
  Best Local Similarity   75.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RGTKCLRREAPR 14
              |||||||:: ||
Db        564 RGTKCLRKKIPR 575


Search completed: March 26, 2004, 12:29:51
Job time : 12.4872 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:23:20 ; Search time 11.4872 Seconds
(without alignments)
62.919 Million cell updates/sec

Title: US-09-824-647-5
Perfect score: 73
Sequence: 1 SARGTKCLRKKIPR 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	73	100.0	14	4	US-08-991-862-5	Sequence 5, Appli
2	73	100.0	14	4	US-09-813-156-5	Sequence 5, Appli
3	73	100.0	589	1	US-07-668-648-6	Sequence 6, Appli
4	73	100.0	589	2	US-08-429-998-6	Sequence 6, Appli
5	73	100.0	589	2	US-08-431-333-6	Sequence 6, Appli
6	73	100.0	589	4	US-08-991-862-2	Sequence 2, Appli
7	73	100.0	589	4	US-09-813-156-2	Sequence 2, Appli
8	73	100.0	589	5	PCT-US91-02321-6	Sequence 6, Appli
9	65	89.0	589	1	US-07-668-648-2	Sequence 2, Appli
10	65	89.0	589	2	US-08-429-998-2	Sequence 2, Appli
11	65	89.0	589	2	US-08-431-333-2	Sequence 2, Appli
12	65	89.0	589	5	PCT-US91-02321-2	Sequence 2, Appli
13	58	79.5	593	1	US-07-668-648-4	Sequence 4, Appli
14	58	79.5	593	2	US-08-429-998-4	Sequence 4, Appli
15	58	79.5	593	2	US-08-431-333-4	Sequence 4, Appli
16	58	79.5	593	5	PCT-US91-02321-4	Sequence 4, Appli
17	53	72.6	14	4	US-08-991-862-7	Sequence 7, Appli
18	53	72.6	14	4	US-09-813-156-7	Sequence 7, Appli
19	53	72.6	593	4	US-08-991-862-17	Sequence 17, Appl
20	53	72.6	593	4	US-09-813-156-17	Sequence 17, Appl
21	42	57.5	490	4	US-09-252-991A-16991	Sequence 16991, A
22	40	54.8	278	4	US-09-724-864-52	Sequence 52, Appl
23	39	53.4	29	4	US-09-636-399A-15	Sequence 15, Appl
24	39	53.4	30	4	US-09-636-399A-16	Sequence 16, Appl
25	39	53.4	30	4	US-09-636-399A-72	Sequence 72, Appl
26	39	53.4	31	4	US-09-636-399A-70	Sequence 70, Appl
27	39	53.4	31	4	US-09-636-399A-71	Sequence 71, Appl
28	39	53.4	32	4	US-09-636-399A-68	Sequence 68, Appl
29	39	53.4	32	4	US-09-636-399A-69	Sequence 69, Appl
30	39	53.4	33	4	US-09-636-399A-66	Sequence 66, Appl
31	39	53.4	33	4	US-09-636-399A-67	Sequence 67, Appl
32	39	53.4	34	4	US-09-636-399A-64	Sequence 64, Appl
33	39	53.4	34	4	US-09-636-399A-65	Sequence 65, Appl
34	39	53.4	35	4	US-09-636-399A-62	Sequence 62, Appl
35	39	53.4	35	4	US-09-636-399A-63	Sequence 63, Appl
36	39	53.4	36	4	US-09-636-399A-60	Sequence 60, Appl
37	39	53.4	36	4	US-09-636-399A-61	Sequence 61, Appl
38	39	53.4	37	4	US-09-636-399A-58	Sequence 58, Appl
39	39	53.4	37	4	US-09-636-399A-59	Sequence 59, Appl
40	39	53.4	38	4	US-09-636-399A-56	Sequence 56, Appl
41	39	53.4	38	4	US-09-636-399A-57	Sequence 57, Appl
42	39	53.4	39	4	US-09-636-399A-54	Sequence 54, Appl
43	39	53.4	39	4	US-09-636-399A-55	Sequence 55, Appl
44	39	53.4	40	4	US-09-636-399A-52	Sequence 52, Appl
45	39	53.4	40	4	US-09-636-399A-53	Sequence 53, Appl

ALIGNMENTS

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RESULT 1
US-08-991-862-5
; Sequence 5, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-08-991-862-5

  Query Match           100.0%;  Score 73;  DB 4;  Length 14;
  Best Local Similarity  100.0%;  Pred. No. 3.1e-06;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||||||||||||||
Db          1 SARGTKCLRKKIPR 14


RESULT 2
US-09-813-156-5
; Sequence 5, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
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;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(14)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-813-156-5

  Query Match             100.0%;  Score 73;  DB 4;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 3.1e-06;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||||||||||||||
Db          1 SARGTKCLRKKIPR 14


RESULT 3
US-07-668-648-6
; Sequence 6, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-6

  Query Match             100.0%;  Score 73;  DB 1;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.5e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||||||||||||||
Db        562 SARGTKCLRKKIPR 575


RESULT 4
US-08-429-998-6
; Sequence 6, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-6

  Query Match             100.0%;  Score 73;  DB 2;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.5e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||||||||||||||
Db        562 SARGTKCLRKKIPR 575


RESULT 5
US-08-431-333-6
; Sequence 6, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
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;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/431,333
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-431-333-6

  Query Match             100.0%;  Score 73;  DB 2;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.5e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||||||||||||||
Db        562 SARGTKCLRKKIPR 575


RESULT 6
US-08-991-862-2
; Sequence 2, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-08-991-862-2

  Query Match             100.0%;  Score 73;  DB 4;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.5e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||||||||||||||
Db        562 SARGTKCLRKKIPR 575


RESULT 7
US-09-813-156-2
; Sequence 2, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-813-156-2

  Query Match             100.0%;  Score 73;  DB 4;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.5e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||||||||||||||
Db        562 SARGTKCLRKKIPR 575


RESULT 8
PCT-US91-02321-6
; Sequence 6, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-6

  Query Match             100.0%;  Score 73;  DB 5;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.5e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||||||||||||||
Db        562 SARGTKCLRKKIPR 575


RESULT 9
US-07-668-648-2
; Sequence 2, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
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;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-2

  Query Match             89.0%;  Score 65;  DB 1;  Length 589;
  Best Local Similarity   85.7%;  Pred. No. 0.0022;
  Matches   12;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||:||||||| ||
Db        562 SAKGTKCLRKKTPR 575


RESULT 10
US-08-429-998-2
; Sequence 2, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-2

  Query Match             89.0%;  Score 65;  DB 2;  Length 589;
  Best Local Similarity   85.7%;  Pred. No. 0.0022;
  Matches   12;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||:||||||| ||
Db        562 SAKGTKCLRKKTPR 575


RESULT 11
US-08-431-333-2
; Sequence 2, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/431,333
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-431-333-2

  Query Match             89.0%;  Score 65;  DB 2;  Length 589;
  Best Local Similarity   85.7%;  Pred. No. 0.0022;
  Matches   12;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;
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Qy          1 SARGTKCLRKKIPR 14
              ||:|||||||| ||
Db        562 SAKGTKCLRKKTPR 575


RESULT 12
PCT-US91-02321-2
; Sequence 2, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-2

  Query Match             89.0%;  Score 65;  DB 5;  Length 589;
  Best Local Similarity   85.7%;  Pred. No. 0.0022;
  Matches   12;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              ||:|||||||| ||
Db        562 SAKGTKCLRKKTPR 575


RESULT 13
US-07-668-648-4
; Sequence 4, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-4

  Query Match             79.5%;  Score 58;  DB 1;  Length 593;
  Best Local Similarity   71.4%;  Pred. No. 0.036;
  Matches   10;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SARGTKCLRKKIPR 14
              :|||||||:: ||
Db        566 AARGTKCLRREAPR 579


RESULT 14
US-08-429-998-4
; Sequence 4, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
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US-08-429-998-4

Query Match 79.5%; Score 58; DB 2; Length 593;
Best Local Similarity 71.4%; Pred. No. 0.036;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 SARGTKCLRKKIPR 14
              :|||||||:: ||
Db        566 AARGTKCLRREAPR 579
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RESULT 15
US-08-431-333-4
; Sequence 4, Application US/08431333
; Patent No. 5965723
; GENERAL INFORMATION:
; APPLICANT: Shoyab, Mohammed
; APPLICANT: Plowman, Gregory D.
; TITLE OF INVENTION: EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
; TITLE OF INVENTION: MODULATING PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/431,333
; FILING DATE: 27-APR-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/668,648
; FILING DATE: 13-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Misrock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 5624-161-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212) 869-9741
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 593 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-431-333-4

Query Match 79.5%; Score 58; DB 2; Length 593;
Best Local Similarity 71.4%; Pred. No. 0.036;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 SARGTKCLRKKIPR 14
              :|||||||:: ||
Db        566 AARGTKCLRREAPR 579
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Search completed: March 26, 2004, 12:29:49
Job time : 11.4872 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:23:20 ; Search time 9.84615 Seconds
(without alignments)
62.919 Million cell updates/sec

Title: US-09-824-647-4
Perfect score: 69
Sequence: 1 PDAKTQCPDDST 12

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	69	100.0	12	4	US-08-991-862-4	Sequence 4, Appli
2	69	100.0	12	4	US-09-813-156-4	Sequence 4, Appli
3	69	100.0	589	1	US-07-668-648-2	Sequence 2, Appli
4	69	100.0	589	1	US-07-668-648-6	Sequence 6, Appli
5	69	100.0	589	2	US-08-429-998-2	Sequence 2, Appli
6	69	100.0	589	2	US-08-429-998-6	Sequence 6, Appli
7	69	100.0	589	2	US-08-431-333-2	Sequence 2, Appli
8	69	100.0	589	2	US-08-431-333-6	Sequence 6, Appli
9	69	100.0	589	4	US-08-991-862-2	Sequence 2, Appli
10	69	100.0	589	4	US-09-813-156-2	Sequence 2, Appli
11	69	100.0	589	5	PCT-US91-02321-2	Sequence 2, Appli
12	69	100.0	589	5	PCT-US91-02321-6	Sequence 6, Appli
13	51	73.9	593	1	US-07-668-648-4	Sequence 4, Appli
14	51	73.9	593	2	US-08-429-998-4	Sequence 4, Appli
15	51	73.9	593	2	US-08-431-333-4	Sequence 4, Appli
16	51	73.9	593	4	US-08-991-862-17	Sequence 17, Appl
17	51	73.9	593	4	US-09-813-156-17	Sequence 17, Appl
18	51	73.9	593	5	PCT-US91-02321-4	Sequence 4, Appli
19	40	58.0	268	4	US-09-489-039A-8094	Sequence 8094, Ap
20	38	55.1	343	1	US-08-336-891-2	Sequence 2, Appli
21	38	55.1	343	5	PCT-US95-13795-4	Sequence 4, Appli
22	37	53.6	179	1	US-07-668-648-8	Sequence 8, Appli
23	37	53.6	179	2	US-08-429-998-8	Sequence 8, Appli
24	37	53.6	179	2	US-08-431-333-8	Sequence 8, Appli
25	37	53.6	179	5	PCT-US91-02321-8	Sequence 8, Appli
26	36	52.2	197	4	US-09-480-297A-23	Sequence 23, Appl
27	36	52.2	197	4	US-09-747-259-4	Sequence 4, Appli
28	36	52.2	197	4	US-09-816-744-4	Sequence 4, Appli
29	36	52.2	399	4	US-09-252-991A-31028	Sequence 31028, A
30	36	52.2	452	4	US-09-463-712C-8	Sequence 8, Appli
31	36	52.2	452	4	US-09-865-415-6	Sequence 6, Appli
32	36	52.2	561	3	US-09-233-989-5	Sequence 5, Appli
33	36	52.2	1040	4	US-09-564-805-238	Sequence 238, App
34	36	52.2	1480	3	US-09-191-647-7	Sequence 7, Appli
35	36	52.2	1480	3	US-09-540-245A-7	Sequence 7, Appli
36	36	52.2	1480	3	US-09-540-153-7	Sequence 7, Appli
37	36	52.2	1480	4	US-09-182-024A-5	Sequence 5, Appli
38	36	52.2	1480	5	PCT-US91-09055-2	Sequence 2, Appli
39	35.5	51.4	35	1	US-08-190-802A-220	Sequence 220, App
40	35.5	51.4	35	3	US-08-477-346-220	Sequence 220, App
41	35.5	51.4	35	4	US-08-473-089-220	Sequence 220, App
42	35.5	51.4	35	4	US-08-487-072A-220	Sequence 220, App
43	35.5	51.4	216	4	US-09-543-681A-5719	Sequence 5719, Ap
44	35.5	51.4	223	4	US-09-489-039A-8078	Sequence 8078, Ap
45	35.5	51.4	488	1	US-08-190-802A-60	Sequence 60, Appl

ALIGNMENTS

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RESULT 1
US-08-991-862-4
; Sequence 4, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(12)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-08-991-862-4

  Query Match             100.0%;  Score 69;  DB 4;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 1.6e-05;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db          1 PDAKTQCPDDST 12


RESULT 2
US-09-813-156-4
; Sequence 4, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
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;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(12)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-813-156-4

  Query Match             100.0%;  Score 69;  DB 4;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 1.6e-05;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db          1 PDAKTQCPDDST 12


RESULT 3
US-07-668-648-2
; Sequence 2, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-2

  Query Match             100.0%;  Score 69;  DB 1;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db        208 PDAKTQCPDDST 219


RESULT 4
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US-07-668-648-6
; Sequence 6, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-6

  Query Match             100.0%;  Score 69;  DB 1;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db        208 PDAKTQCPDDST 219


RESULT 5
US-08-429-998-2
; Sequence 2, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
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;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-2

  Query Match             100.0%;  Score 69;  DB 2;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db        208 PDAKTQCPDDST 219


RESULT 6
US-08-429-998-6
; Sequence 6, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-6

  Query Match             100.0%;  Score 69;  DB 2;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db        208 PDAKTQCPDDST 219


RESULT 7
US-08-431-333-2
; Sequence 2, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/431,333
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-431-333-2

  Query Match             100.0%;  Score 69;  DB 2;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
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Db        208 PDAKTQCPDDST 219


RESULT 8
US-08-431-333-6
; Sequence 6, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
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;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/431,333
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-431-333-6

  Query Match             100.0%;  Score 69;  DB 2;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db        208 PDAKTQCPDDST 219


RESULT 9
US-08-991-862-2
; Sequence 2, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-08-991-862-2

  Query Match             100.0%;  Score 69;  DB 4;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db        208 PDAKTQCPDDST 219


RESULT 10
US-09-813-156-2
; Sequence 2, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-813-156-2

  Query Match             100.0%;  Score 69;  DB 4;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db        208 PDAKTQCPDDST 219


RESULT 11
PCT-US91-02321-2
; Sequence 2, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-2

  Query Match             100.0%;  Score 69;  DB 5;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 PDAKTQCPDDST 12
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Db        208 PDAKTQCPDDST 219


RESULT 12
PCT-US91-02321-6
; Sequence 6, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-6

  Query Match             100.0%;  Score 69;  DB 5;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 0.0011;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              ||||||||||||
Db        208 PDAKTQCPDDST 219


RESULT 13
US-07-668-648-4
; Sequence 4, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-4

  Query Match             73.9%;  Score 51;  DB 1;  Length 593;
  Best Local Similarity   66.7%;  Pred. No. 1.1;
  Matches    8;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 PDAKTQCPDDST 12
              |||:::||| ||
Db        209 PDARSRCPDGST 220


RESULT 14
US-08-429-998-4
; Sequence 4, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
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US-08-429-998-4

Query Match 73.9%; Score 51; DB 2; Length 593;
Best Local Similarity 66.7%; Pred. No. 1.1;
Matches 8; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 PDAKTQCPDDST 12
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Db        209 PDARSRCPDGST 220
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RESULT 15
US-08-431-333-4
; Sequence 4, Application US/08431333
; Patent No. 5965723
; GENERAL INFORMATION:
; APPLICANT: Shoyab, Mohammed
; APPLICANT: Plowman, Gregory D.
; TITLE OF INVENTION: EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
; TITLE OF INVENTION: MODULATING PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/431,333
; FILING DATE: 27-APR-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/668,648
; FILING DATE: 13-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Misrock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 5624-161-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212) 869-9741
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 593 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-431-333-4

Query Match 73.9%; Score 51; DB 2; Length 593;
Best Local Similarity 66.7%; Pred. No. 1.1;
Matches 8; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 PDAKTQCPDDST 12
              |||:::|||  ||
Db        209 PDARSRCPDGST 220
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Search completed: March 26, 2004, 12:29:49
Job time : 10.8462 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: March 26, 2004, 12:23:20 ; Search time 15.5897 Seconds
(without alignments)
62.919 Million cell updates/sec

Title: US-09-824-647-3
Perfect score: 96
Sequence: 1 KKVIAPRRLPDPQILKSDT 19

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	96	100.0	19	4	US-08-991-862-3	Sequence 3, Appli
2	96	100.0	19	4	US-09-813-156-3	Sequence 3, Appli
3	96	100.0	589	1	US-07-668-648-6	Sequence 6, Appli
4	96	100.0	589	2	US-08-429-998-6	Sequence 6, Appli
5	96	100.0	589	2	US-08-431-333-6	Sequence 6, Appli
6	96	100.0	589	5	PCT-US91-02321-6	Sequence 6, Appli
7	89	92.7	589	4	US-08-991-862-2	Sequence 2, Appli
8	89	92.7	589	4	US-09-813-156-2	Sequence 2, Appli
9	62	64.6	589	1	US-07-668-648-2	Sequence 2, Appli
10	62	64.6	589	2	US-08-429-998-2	Sequence 2, Appli
11	62	64.6	589	2	US-08-431-333-2	Sequence 2, Appli
12	62	64.6	589	5	PCT-US91-02321-2	Sequence 2, Appli
13	47	49.0	92	4	US-09-800-971-11	Sequence 11, Appl
14	44.5	46.4	277	4	US-09-252-991A-28167	Sequence 28167, A
15	44	45.8	19	4	US-08-991-862-6	Sequence 6, Appli
16	44	45.8	19	4	US-09-813-156-6	Sequence 6, Appli
17	44	45.8	593	1	US-07-668-648-4	Sequence 4, Appli
18	44	45.8	593	2	US-08-429-998-4	Sequence 4, Appli
19	44	45.8	593	2	US-08-431-333-4	Sequence 4, Appli
20	44	45.8	593	4	US-08-991-862-17	Sequence 17, Appl
21	44	45.8	593	4	US-09-813-156-17	Sequence 17, Appl
22	44	45.8	593	5	PCT-US91-02321-4	Sequence 4, Appli
23	42	43.8	416	4	US-09-430-221-13	Sequence 13, Appl
24	42	43.8	505	4	US-09-717-364A-5	Sequence 5, Appli
25	42	43.8	556	2	US-08-505-377-1	Sequence 1, Appli
26	42	43.8	556	3	US-08-798-269-1	Sequence 1, Appli
27	42	43.8	556	4	US-09-055-210-1	Sequence 1, Appli
28	42	43.8	556	4	US-09-298-924-8	Sequence 8, Appli
29	42	43.8	820	2	US-08-380-182-23	Sequence 23, Appl
30	42	43.8	835	4	US-09-489-039A-8740	Sequence 8740, Ap
31	41.5	43.2	485	4	US-09-252-991A-17170	Sequence 17170, A
32	41	42.7	273	4	US-09-252-991A-32405	Sequence 32405, A
33	41	42.7	381	4	US-09-252-991A-28320	Sequence 28320, A
34	41	42.7	798	4	US-09-533-029-48	Sequence 48, Appl
35	41	42.7	803	2	US-08-907-166-4	Sequence 4, Appli
36	41	42.7	803	4	US-09-391-340-4	Sequence 4, Appli
37	40	41.7	304	4	US-09-107-532A-7162	Sequence 7162, Ap
38	40	41.7	335	4	US-09-152-060-64	Sequence 64, Appl
39	40	41.7	480	4	US-09-252-991A-23424	Sequence 23424, A
40	40	41.7	572	4	US-09-252-991A-23996	Sequence 23996, A
41	40	41.7	860	4	US-09-252-991A-28607	Sequence 28607, A
42	39	40.6	134	4	US-09-252-991A-16588	Sequence 16588, A
43	39	40.6	138	4	US-09-252-991A-27704	Sequence 27704, A
44	39	40.6	325	4	US-09-252-991A-32561	Sequence 32561, A
45	39	40.6	369	4	US-09-252-991A-27583	Sequence 27583, A

ALIGNMENTS

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RESULT 1
US-08-991-862-3
; Sequence 3, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-08-991-862-3

  Query Match             100.0%;  Score 96;  DB 4;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-09;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              ||||||||||||||||||||
Db          1 KKVIAPRRLPDPQILKSDT 19


RESULT 2
US-09-813-156-3
; Sequence 3, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
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;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: mouse granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of mouse GP88 used to raise the
;   OTHER INFORMATION: antisera against the GP88 used in the
;   OTHER INFORMATION: immunoaffinity step.
US-09-813-156-3

  Query Match             100.0%;  Score 96;  DB 4;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-09;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              ||||||||||||||||||||
Db          1 KKVIAPRRLPDPQILKSDT 19


RESULT 3
US-07-668-648-6
; Sequence 6, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-6

  Query Match             100.0%;  Score 96;  DB 1;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.2e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              ||||||||||||||||||||
Db        344 KKVIAPRRLPDPQILKSDT 362


RESULT 4
US-08-429-998-6
; Sequence 6, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-6

  Query Match             100.0%;  Score 96;  DB 2;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.2e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              ||||||||||||||||||||
Db        344 KKVIAPRRLPDPQILKSDT 362


RESULT 5
US-08-431-333-6
; Sequence 6, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
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;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/431,333
;       FILING DATE:  27-APR-1995
;       CLASSIFICATION:  536
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/668,648
;       FILING DATE:  13-MAR-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Misrock, S. Leslie
;       REGISTRATION NUMBER:  18,872
;       REFERENCE/DOCKET NUMBER:  5624-161-999
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212)790-9090
;       TELEFAX:  (212) 869-9741
;   INFORMATION FOR SEQ ID NO:  6:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  589 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-431-333-6

  Query Match             100.0%;  Score 96;  DB 2;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.2e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||||||||||||||||
Db        344 KKVIAPRRLPDPQILKSDT 362


RESULT 6
PCT-US91-02321-6
; Sequence 6, Application PC/TUS9102321
;  GENERAL INFORMATION:
;     APPLICANT:  Shoyab, Mohammed
;     APPLICANT:  Plowman, Gregory D.
;     TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;     TITLE OF INVENTION:  MODULATING PROTEINS
;     NUMBER OF SEQUENCES:  12
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Bristol-Myers Squibb Company
;       STREET:  3005 First Avenue
;       CITY:  Seattle
;       STATE:  Washington
;       COUNTRY:  USA
;       ZIP:  98121
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/US91/02321
;       FILING DATE:  19910403
;       CLASSIFICATION:  514
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Poor, Brian W.
;       REGISTRATION NUMBER:  32,928
;       REFERENCE/DOCKET NUMBER:  ON0071A-PC
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (206)728-4800
;       TELEFAX:  (206)448-4775
;   INFORMATION FOR SEQ ID NO:  6:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  589 amino acids
;       TYPE:  AMINO ACID
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
PCT-US91-02321-6

  Query Match             100.0%;  Score 96;  DB 5;  Length 589;
  Best Local Similarity   100.0%;  Pred. No. 9.2e-08;
  Matches   19;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||||||||||||||||
Db        344 KKVIAPRRLPDPQILKSDT 362


RESULT 7
US-08-991-862-2
; Sequence 2, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-08-991-862-2

  Query Match             92.7%;  Score 89;  DB 4;  Length 589;
  Best Local Similarity   94.7%;  Pred. No. 1.3e-06;
  Matches   18;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||| ||||||||||||
Db        344 KKVIAPLRLPDPQILKSDT 362


RESULT 8
US-09-813-156-2
; Sequence 2, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/09/813,156
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 08/991,862
;  PRIOR FILING DATE: 1997-12-16
;  PRIOR APPLICATION NUMBER: 08/863,862
;  PRIOR FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-09-813-156-2

  Query Match             92.7%;  Score 89;  DB 4;  Length 589;
  Best Local Similarity   94.7%;  Pred. No. 1.3e-06;
  Matches   18;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSDT 19
              |||||| ||||||||||||
Db        344 KKVIAPLRLPDPQILKSDT 362


RESULT 9
US-07-668-648-2
; Sequence 2, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
```

```
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-2

  Query Match             64.6%;  Score 62;  DB 1;  Length 589;
  Best Local Similarity   72.2%;  Pred. No. 0.037;
  Matches   13;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSD 18
              ||| |   ||||||||:|
Db        344 KKVTASLSLPDPQILKND 361


RESULT 10
US-08-429-998-2
; Sequence 2, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-2

  Query Match             64.6%;  Score 62;  DB 2;  Length 589;
  Best Local Similarity   72.2%;  Pred. No. 0.037;
  Matches   13;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSD 18
              ||| |   ||||||||:|
Db        344 KKVTASLSLPDPQILKND 361


RESULT 11
US-08-431-333-2
; Sequence 2, Application US/08431333
; Patent No. 5965723
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/431,333
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-431-333-2

  Query Match             64.6%;  Score 62;  DB 2;  Length 589;
  Best Local Similarity   72.2%;  Pred. No. 0.037;
  Matches   13;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;
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```
Qy          1 KKVIAPRRLPDPQILKSD 18
              ||| |   ||||||||:|
Db        344 KKVTASLSLPDPQILKND 361


RESULT 12
PCT-US91-02321-2
; Sequence 2, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-2

  Query Match             64.6%;  Score 62;  DB 5;  Length 589;
  Best Local Similarity   72.2%;  Pred. No. 0.037;
  Matches   13;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 KKVIAPRRLPDPQILKSD 18
              ||| |   ||||||||:|
Db        344 KKVTASLSLPDPQILKND 361


RESULT 13
US-09-800-971-11
; Sequence 11, Application US/09800971
; Patent No. 6534301
; GENERAL INFORMATION:
;  APPLICANT: Rachel A. Meyers
;  TITLE OF INVENTION: 16835, A NOVEL HUMAN PHOSPHOLIPASE C
;  TITLE OF INVENTION:  FAMILY MEMBER AND USES THEREOF
;  FILE REFERENCE: 10448-023001
;  CURRENT APPLICATION NUMBER: US/09/800,971
;  CURRENT FILING DATE:  2001-03-06
;  PRIOR APPLICATION NUMBER: 60/187,453
;  PRIOR FILING DATE: 2000-03-07
;  PRIOR APPLICATION NUMBER: 60/188,032
;  PRIOR FILING DATE: 2000-03-09
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
;   LENGTH: 92
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: consensus sequence
US-09-800-971-11

  Query Match             49.0%;  Score 47;  DB 4;  Length 92;
  Best Local Similarity   50.0%;  Pred. No. 1.3;
  Matches    9;  Conservative    3;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          2 KVIAPRRLPDPQILKSDT 19
              |:|: | |||| :  | |
Db          5 KIISARNLPDPYVKVSKT 22


RESULT 14
US-09-252-991A-28167
; Sequence 28167, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 28167
;   LENGTH: 277
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28167

  Query Match             46.4%;  Score 44.5;  DB 4;  Length 277;
  Best Local Similarity   42.3%;  Pred. No. 12;
  Matches   11;  Conservative    3;  Mismatches    3;  Indels    9;  Gaps    1;

Qy          3 VIAPRRLP---------DPQILKSDT 19
              |||| | |         ||| |::|:
Db        210 VIAPGRFPSRMTRHIANDPQALEADS 235


RESULT 15
US-08-991-862-6
; Sequence 6, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Human granulin
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(19)
;   OTHER INFORMATION: Internal peptide of human GP88 used to develop
;   OTHER INFORMATION: neutralizing anti-human GP88 monoclonal antibody.
US-08-991-862-6

  Query Match             45.8%;  Score 44;  DB 4;  Length 19;
  Best Local Similarity   55.6%;  Pred. No. 0.68;
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Matches 10; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

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Qy          1 KKVIAPRRLPDPQILKSD 18
              :|  |    ||||| || |
Db          1 EKAPAHLSLPDPQALKRD 18
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Search completed: March 26, 2004, 12:29:48
Job time : 15.5897 secs

GenCore version 5.1.6

OM nucleic - protein search, using frame_plus_n2p model

Run on: March 26, 2004, 12:28:40 ; Search time 24 Seconds
(without alignments)
9013.034 Million cell updates/sec

Title: US-09-824-647-16
Perfect score: 4103
Sequence: 1 cgcaggcagaccatgtggac.....ataaagtttgtcactttctt 2095

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3511	85.6	593	4	US-08-991-862-17	Sequence 17, Appl
2	3511	85.6	593	4	US-09-813-156-17	Sequence 17, Appl
3	3472	84.6	593	1	US-07-668-648-4	Sequence 4, Appli
4	3472	84.6	593	2	US-08-429-998-4	Sequence 4, Appli
5	3472	84.6	593	2	US-08-431-333-4	Sequence 4, Appli
6	3472	84.6	593	5	PCT-US91-02321-4	Sequence 4, Appli
7	2696	65.7	589	1	US-07-668-648-2	Sequence 2, Appli
8	2696	65.7	589	2	US-08-429-998-2	Sequence 2, Appli
9	2696	65.7	589	2	US-08-431-333-2	Sequence 2, Appli
10	2696	65.7	589	5	PCT-US91-02321-2	Sequence 2, Appli
11	2693	65.6	589	1	US-07-668-648-6	Sequence 6, Appli
12	2693	65.6	589	2	US-08-429-998-6	Sequence 6, Appli
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17	915.5	22.3	179	1	US-07-668-648-8	Sequence 8, Appli
18	915.5	22.3	179	2	US-08-429-998-8	Sequence 8, Appli
19	915.5	22.3	179	2	US-08-431-333-8	Sequence 8, Appli
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21	389.5	9.5	113	1	US-07-668-648-10	Sequence 10, Appl
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ALIGNMENTS

RESULT 1
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; Sequence 17, Application US/08991862
; Patent No. 6309826
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/08/991,862
; CURRENT FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 08/863,862
; EARLIER FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Human GP88 cDNA
US-08-991-862-17

Alignment Scores:

Pred. No.:	2.08e-219	Length:	593
Score:	3511.00	Matches:	593
Percent Similarity:	100.00%	Conservative:	0
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Query Match:	85.57%	Indels:	0
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US-09-824-647-16 (1-2095) x US-08-991-862-17 (1-593)

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; Sequence 17, Application US/09813156
; Patent No. 6670183
; GENERAL INFORMATION:
; APPLICANT: Serrero, Ginette
; TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
; FILE REFERENCE: Z9996.488/P001-A
; CURRENT APPLICATION NUMBER: US/09/813,156
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/991,862
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 08/863,862
; PRIOR FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Human GP88 cDNA
US-09-813-156-17

Alignment Scores:

Pred. No.:	2.08e-219	Length:	593
Score:	3511.00	Matches:	593
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	85.57%	Indels:	0
DB:	4	Gaps:	0

US-09-824-647-16 (1-2095) x US-09-813-156-17 (1-593)

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Qy      1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
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Db       441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlyThrCysCysProSerGln 460

Qy      1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy      1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy      1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy      1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

Qy      1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       541 TrpAlaCysCysProTyrAlaGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy      1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       561 AlaGlyPheArgCysAlaArgArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy      1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
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Db       581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593
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RESULT 3
US-07-668-648-4
; Sequence 4, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
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;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-4

Alignment Scores:
Pred. No.:                6.92e-217       Length:          593
Score:                    3472.00         Matches:         587
Percent Similarity:       98.99%          Conservative:    0
Best Local Similarity:    98.99%          Mismatches:      6
Query Match:              84.62%          Indels:          0
DB:                       1               Gaps:            0

US-09-824-647-16 (1-2095) x US-07-668-648-4 (1-593)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
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Db          1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         81 SerSerCysCysProPheProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
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Db        101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        141 ValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 160

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        161 ArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThrArgCysIleThr 180

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 ProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThrAsnArgAlaVal 200

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        201 AlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysProAspGlySerThr 220

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        221 CysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsnAlaThrCysCys 240

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 260

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        261 LeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAlaHisThrValGly 280

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        281 AspValLysCysAspMetGluValSerCysProAspGlyTyrThrCysCysArgLeuGln 300

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
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Db        341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
              ||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||
Db        401 GlnHisCysCysProGlnGlyTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgAlaSerLeuSerHisProArg 440

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 460

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              ||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||
Db        541 TrpAlaCysCysProTyrArgGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
              ||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||
Db        561 AlaGlyPheArgCysAlaAlaArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              ||||||||||||||||||||||||||||||||||||||
Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593

RESULT 4
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US-08-429-998-4
; Sequence 4, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-4

Alignment Scores:
Pred. No.:                6.92e-217       Length:          593
Score:                    3472.00         Matches:         587
Percent Similarity:       98.99%          Conservative:    0
Best Local Similarity:    98.99%          Mismatches:      6
Query Match:              84.62%          Indels:          0
DB:                       2               Gaps:            0

US-09-824-647-16 (1-2095) x US-08-429-998-4 (1-593)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
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Db          1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         81 SerSerCysCysProProProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
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Db        101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
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Db        121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        141 ValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 160

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        161 ArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThrArgCysIleThr 180

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 ProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThrAsnArgAlaVal 200

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        201 AlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysProAspGlySerThr 220

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
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Db        221 CysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsnAlaThrCysCys 240

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 260

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        261 LeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAlaHisThrValGly 280

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
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Db        281 AspValLysCysAspMetGluValSerCysProAspGlyTyrThrCysCysArgLeuGln 300

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
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Db        321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
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Db        341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
              ||||||||||||||||  ||||||||||||||||||||||||||||||||||||||||||
Db        401 GlnHisCysCysProGlnGlyTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
              ||||||||||||||||||||||||||||||||  ||||||||||||||||||||||||||
Db        421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgAlaSerLeuSerHisProArg 440

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              ||||||||||||||||||||||||||||||||||||  ||||||||||||||||||||||
Db        441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 460

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
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                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
                ||||||||||||||||||  ||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TrpAlaCysCysProTyrArgGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
                ||||||||||||||||||  ||||||||||||||||||||||||||||||||||||||||||||||||
Db        561 AlaGlyPheArgCysAlaAlaArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
                |||||||||||||||||||||||||||||||||||||||
Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593
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RESULT 5
US-08-431-333-4
; Sequence 4, Application US/08431333
; Patent No. 5965723
; GENERAL INFORMATION:
; APPLICANT: Shoyab, Mohammed
; APPLICANT: Plowman, Gregory D.
; TITLE OF INVENTION: EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
; TITLE OF INVENTION: MODULATING PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/431,333
; FILING DATE: 27-APR-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/668,648
; FILING DATE: 13-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Misrock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 5624-161-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212) 869-9741
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 593 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-431-333-4

Alignment Scores:
Pred. No.: 6.92e-217 Length: 593

Score:	3472.00	Matches:	587
Percent Similarity:	98.99%	Conservative:	0
Best Local Similarity:	98.99%	Mismatches:	6
Query Match:	84.62%	Indels:	0
DB:	2	Gaps:	0

US-09-824-647-16 (1-2095) x US-08-431-333-4 (1-593)

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Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         81 SerSerCysCysProPheProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        141 ValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 160

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        161 ArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThrArgCysIleThr 180

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 ProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThrAsnArgAlaVal 200

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        201 AlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysProAspGlySerThr 220

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        221 CysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsnAlaThrCysCys 240

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 260

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        261 LeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAlaHisThrValGly 280

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        281 AspValLysCysAspMetGluValSerCysProAspGlyTyrThrCysCysArgLeuGln 300

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
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                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
                 ||||||||||||||||||  ||||||||||||||||||||||||||||||||||||||||
Db        401 GlnHisCysCysProGlnGlyTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
                 ||||||||||||||||||||||||||||||||||||  ||||||||||||||||||
Db        421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgAlaSerLeuSerHisProArg 440

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
                 ||||||||||||||||||||||||||||||||||||  ||||||||||||||||
Db        441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 460

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
                 ||||||||||||||||  ||||||||||||||||||||||||||||||||||||||||||||
Db        541 TrpAlaCysCysProTyrArgGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
                 ||||||||||||||||  ||||||||||||||||||||||||||||||||||||||||||||
Db        561 AlaGlyPheArgCysAlaAlaArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
                 ||||||||||||||||||||||||||||||||||||||
Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593

RESULT 6
PCT-US91-02321-4
; Sequence 4, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  593 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-4

Alignment Scores:
Pred. No.:              6.92e-217       Length:          593
Score:                  3472.00         Matches:         587
Percent Similarity:     98.99%          Conservative:    0
Best Local Similarity:  98.99%          Mismatches:      6
Query Match:            84.62%          Indels:          0
DB:                     5               Gaps:            0

US-09-824-647-16 (1-2095) x PCT-US91-02321-4 (1-593)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
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Db          1 MetTrpThrLeuValSerTrpValAlaLeuThrAlaGlyLeuValAlaGlyThrArgCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspProGlyGlyAlaSerTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         41 CysCysArgProLeuLeuAspLysTrpProThrThrLeuSerArgHisLeuGlyGlyPro 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CysGlnValAspAlaHisCysSerAlaGlyHisSerCysIlePheThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         81 SerSerCysCysProPheProGluAlaValAlaCysGlyAspGlyHisHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        101 ArgGlyPheHisCysSerAlaAspGlyArgSerCysPheGlnArgSerGlyAsnAsnSer 120

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ValGlyAlaIleGlnCysProAspSerGlnPheGluCysProAspPheSerThrCysCys 140

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        141 ValMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 160

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        161 ArgValHisCysCysProHisGlyAlaPheCysAspLeuValHisThrArgCysIleThr 180

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 ProThrGlyThrHisProLeuAlaLysLysLeuProAlaGlnArgThrAsnArgAlaVal 200

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
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Db        201 AlaLeuSerSerSerValMetCysProAspAlaArgSerArgCysProAspGlySerThr 220

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732

Db        221 CysCysGluLeuProSerGlyLysTyrGlyCysCysProMetProAsnAlaThrCysCys 240

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792

Db        241 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 260

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852

Db        261 LeuSerLysGluAsnAlaThrThrAspLeuLeuThrLysLeuProAlaHisThrValGly 280

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912

Db        281 AspValLysCysAspMetGluValSerCysProAspGlyTyrThrCysCysArgLeuGln 300

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972

Db        301 SerGlyAlaTrpGlyCysCysProPheThrGlnAlaValCysCysGluAspHisIleHis 320

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032

Db        321 CysCysProAlaGlyPheThrCysAspThrGlnLysGlyThrCysGluGlnGlyProHis 340

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092

Db        341 GlnValProTrpMetGluLysAlaProAlaHisLeuSerLeuProAspProGlnAlaLeu 360

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152

Db        361 LysArgAspValProCysAspAsnValSerSerCysProSerSerAspThrCysCysGln 380

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212

Db        381 LeuThrSerGlyGluTrpGlyCysCysProIleProGluAlaValCysCysSerAspHis 400

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272

Db        401 GlnHisCysCysProGlnGlyTyrThrCysValAlaGluGlyGlnCysGlnArgGlySer 420

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332

Db        421 GluIleValAlaGlyLeuGluLysMetProAlaArgArgAlaSerLeuSerHisProArg 440

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392

Db        441 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 460

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452

Db        461 GlyGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 480

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512

Db        481 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgSerCysGluLysGluValVal 500

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572

Db        501 SerAlaGlnProAlaThrPheLeuAlaArgSerProHisValGlyValLysAspValGlu 520

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632

Db        521 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysArgAspAsnArgGlnGly 540

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692

Db        541 TrpAlaCysCysProTyrArgGlnGlyValCysCysAlaAspArgArgHisCysCysPro 560

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752

Db        561 AlaGlyPheArgCysAlaAlaArgGlyThrLysCysLeuArgArgGluAlaProArgTrp 580

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791

Db        581 AspAlaProLeuArgAspProAlaLeuArgGlnLeuLeu 593

RESULT 7
US-07-668-648-2
; Sequence 2, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-2

Alignment Scores:
Pred. No.:                9.94e-167      Length:          589
Score:                    2696.00        Matches:         443
Percent Similarity:       84.15%         Conservative:    56
Best Local Similarity:    74.70%         Mismatches:      90
Query Match:              65.71%         Indels:          4
DB:                       1              Gaps:            3

US-09-824-647-16 (1-2095) x US-07-668-648-2 (1-589)

Qy          13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72

Db           1 MetTrpIleLeuValSerTrpLeuAlaLeuValAlaArgLeuValAlaGlyThrGlnCys 20

Qy          73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132

Db          21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer 40

Qy         133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192

Db          41 CysCysAsnProLeuLeuAspThrTrpProIleIleThrSerArgArgLeuAspGlySer 60

Qy         193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252

Db          61 CysGlnIleArgAspHisCysProAspGlyTyrSerCysLeuLeuThrValSerGlyThr 80
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Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
Db         81 SerSerCysCysProPheSerGluGlyValSerCysAspAspGlyGlnHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
Db        101 ArgGlyPheHisCysSerAlaAspGlyLysSerCysSerGlnIleSer---AspSerLeu 119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
Db        140 IleMetIleAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysIleSer 179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
Db        180 ProThrGlyThrHisProLeuLeuLysLysPheProAlaGlnArgThrAsnArgAlaVal 199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
Db        200 AlaPheProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
Db        260 IleSerLysAsp---TyrThrThrAspLeuMetThrLysLeuProGlyTyrProValAsn 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
Db        279 GluValLysCysAspLeuGluValSerCysProAspGlyTyrThrCysCysArgLeuAsn 298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
Db        299 ThrGlyAlaTrpGlyCysCysProPheThrLysAlaValCysCysGluAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
Db        319 CysCysProAlaGlyPheGlnCysHisThrGluThrGlyThrCysGluLeuGlyValLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
Db        339 GlnValProTrpMetLysLysValThrAlaSerLeuSerLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
Db        359 LysAsnAspValProCysAspAspPheSerSerCysProSerAsnAsnThrCysCysArg 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
Db        379 LeuSerSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysLeuAspHis 398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
Db        399 GlnHisCysCysProGlnGlyPheLysCysMetAspGluGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
Db        419 ArgMetValAlaGlyLeuGluLysMetProValArgGlnThrThrLeuLeuGlnHisGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspAlaGly 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
Db        499 SerValGlnProSerMetAspLeuThrPheGlySerLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
Db        517 CysGlyAlaGlyHisPheCysHisAspAsnGlnSerCysCysLysAspSerGlnGlyGly 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
Db        537 TrpAlaCysCysProTyrValLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
Db        557 IleGlyPheHisCysSerAlaLysGlyThrLysCysLeuArgLysLysThrProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
Db        577 AspIleLeuLeuArgAspProAlaProArgProLeuLeu 589
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RESULT 8
US-08-429-998-2
; Sequence 2, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
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US-08-429-998-2

Alignment Scores:

Pred. No.:	9.94e-167	Length:	589
Score:	2696.00	Matches:	443
Percent Similarity:	84.15%	Conservative:	56
Best Local Similarity:	74.70%	Mismatches:	90
Query Match:	65.71%	Indels:	4
DB:	2	Gaps:	3

US-09-824-647-16 (1-2095) x US-08-429-998-2 (1-589)

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Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC  72
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Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC  132
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer  40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC  192
Db         41 CysCysAsnProLeuLeuAspThrTrpProIleIleThrSerArgArgLeuAspGlySer  60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT  252
Db         61 CysGlnIleArgAspHisCysProAspGlyTyrSerCysLeuLeuThrValSerGlyThr  80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA  312
Db         81 SerSerCysCysProPheSerGluGlyValSerCysAspAspGlyGlnHisCysCysPro  100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC  372
Db        101 ArgGlyPheHisCysSerAlaAspGlyLysSerCysSerGlnIleSer---AspSerLeu  119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT  432
Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys  139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC  492
Db        140 IleMetIleAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp  159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA  552
Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysIleSer  179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG  612
Db        180 ProThrGlyThrHisProLeuLeuLysLysPheProAlaGlnArgThrAsnArgAlaVal  199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC  672
Db        200 AlaPheProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr  219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC  732
Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys  239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC  792
Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys  259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC  852
Db        260 IleSerLysAsp---TyrThrThrAspLeuMetThrLysLeuProGlyTyrProValAsn  278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG  912
Db        279 GluValLysCysAspLeuGluValSerCysProAspGlyTyrThrCysCysArgLeuAsn  298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC  972
Db        299 ThrGlyAlaTrpGlyCysCysProPheThrLysAlaValCysCysGluAspHisIleHis  318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
Db        319 CysCysProAlaGlyPheGlnCysHisThrGluThrGlyThrCysGluLeuGlyValLeu  338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
Db        339 GlnValProTrpMetLysLysValThrAlaSerLeuSerLeuProAspProGlnIleLeu  358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
Db        359 LysAsnAspValProCysAspAspPheSerSerCysProSerAsnAsnThrCysCysArg  378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
Db        379 LeuSerSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysLeuAspHis  398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
Db        399 GlnHisCysCysProGlnGlyPheLysCysMetAspGluGlyTyrCysGlnLysGlyAsp  418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
Db        419 ArgMetValAlaGlyLeuGluLysMetProValArgGlnThrThrLeuLeuGlnHisGly  438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu  458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis  478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspAlaGly  498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
Db        499 SerValGlnProSerMetAspLeuThrPheGlySerLysValGly------AsnValGlu  516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
Db        517 CysGlyAlaGlyHisPheCysHisAspAsnGlnSerCysCysLysAspSerGlnGlyGly  536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
Db        537 TrpAlaCysCysProTyrValLysGlyValCysCysArgAspGlyArgHisCysCysPro  556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
Db        557 IleGlyPheHisCysSerAlaLysGlyThrLysCysLeuArgLysLysThrProArgTrp  576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
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RESULT 9
US-08-431-333-2
; Sequence 2, Application US/08431333
; Patent No. 5965723
; GENERAL INFORMATION:
; APPLICANT: Shoyab, Mohammed
; APPLICANT: Plowman, Gregory D.
; TITLE OF INVENTION: EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
; TITLE OF INVENTION: MODULATING PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York

```
;       STATE:  New York
;       COUNTRY:  USA
;       ZIP:  10036
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/431,333
;       FILING DATE:  27-APR-1995
;       CLASSIFICATION:  536
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/668,648
;       FILING DATE:  13-MAR-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Misrock, S. Leslie
;       REGISTRATION NUMBER:  18,872
;       REFERENCE/DOCKET NUMBER:  5624-161-999
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212)790-9090
;       TELEFAX:  (212) 869-9741
;   INFORMATION FOR SEQ ID NO:  2:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  589 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-431-333-2

Alignment Scores:
Pred. No.:              9.94e-167       Length:         589
Score:                  2696.00         Matches:        443
Percent Similarity:     84.15%          Conservative:   56
Best Local Similarity:  74.70%          Mismatches:     90
Query Match:            65.71%          Indels:         4
DB:                     2               Gaps:           3

US-09-824-647-16 (1-2095) x US-08-431-333-2 (1-589)

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Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
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Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
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Db         41 CysCysAsnProLeuLeuAspThrTrpProIleIleThrSerArgArgLeuAspGlySer 60

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Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
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Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
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Db        101 ArgGlyPheHisCysSerAlaAspGlyLysSerCysSerGlnIleSer---AspSerLeu 119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
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Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
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Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
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Db        180 ProThrGlyThrHisProLeuLeuLysLysPheProAlaGlnArgThrAsnArgAlaVal 199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
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Db        200 AlaProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
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Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
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Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              :::||||||:::      ||||||||||||:::||||||||||  :::  |||
Db        260 IleSerLysAsp---TyrThrThrAspLeuMetThrLysLeuProGlyTyrProValAsn 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
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Db        299 ThrGlyAlaTrpGlyCysCysProPheThrLysAlaValCysCysGluAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
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Db        319 CysCysProAlaGlyPheGlnCysHisThrGluThrGlyThrCysGluLeuGlyValLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
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Db        339 GlnValProTrpMetLysLysValThrAlaSerLeuSerLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
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Db        359 LysAsnAspValProCysAspAspPheSerSerCysProSerAsnAsnThrCysCysArg 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
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Db        379 LeuSerSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysLeuAspHis 398

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Db        399 GlnHisCysCysProGlnGlyPheLysCysMetAspGluGlyTyrCysGlnLysGlyAsp 418

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Db        419 ArgMetValAlaGlyLeuGluLysMetProValArgGlnThrThrLeuLeuGlnHisGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
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Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
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Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspAlaGly 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
              |||  ||||||:::      |||                  ||||||      :::||||||
Db        499 SerValGlnProSerMetAspLeuThrPheGlySerLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
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Db        517 CysGlyAlaGlyHisPheCysHisAspAsnGlnSerCysCysLysAspSerGlnGlyGly 536

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              ||||||||||||||||||   :::||||||||||||   |||   ||||||||||||||||
Db        537 TrpAlaCysCysProTyrValLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
                ||||||   |||:::   :::|||||||||||||||||||:::::   |||||||||
Db        557 IleGlyPheHisCysSerAlaLysGlyThrLysCysLeuArgLysLysThrProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
                |||      ||||||||||||||||   |||   ||||||
Db        577 AspIleLeuLeuArgAspProAlaProArgProLeuLeu 589

RESULT 10
PCT-US91-02321-2
; Sequence 2, Application PC/TUS9102321
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Bristol-Myers Squibb Company
;      STREET:  3005 First Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98121
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/02321
;      FILING DATE:  19910403
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Poor, Brian W.
;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-2

Alignment Scores:
Pred. No.:              9.94e-167      Length:          589
Score:                  2696.00        Matches:         443
Percent Similarity:     84.15%         Conservative:    56
Best Local Similarity:  74.70%         Mismatches:      90
Query Match:            65.71%         Indels:          4
DB:                     5              Gaps:            3

US-09-824-647-16 (1-2095) x PCT-US91-02321-2 (1-589)

Qy          13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
               ||||||   ||||||||||||:::||||||   |||   ||||||||||||||:::|||
Db           1 MetTrpIleLeuValSerTrpLeuAlaLeuValAlaArgLeuValAlaGlyThrGlnCys 20

Qy          73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
               ||||||||||||||||||||||||||||||||||||||   |||||||||:::||||||
Db          21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer' 40

Qy         133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
               ||||||   |||||||||||||   |||   ||||||                  |||
Db          41 CysCysAsnProLeuLeuAspThrTrpProIleIleThrSerArgArgLeuAspGlySer 60

Qy         193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
               ||||||:::      ||||||      |||:::||||||:::   ||||||||||||||
Db          61 CysGlnIleArgAspHisCysProAspGlyTyrSerCysLeuLeuThrValSerGlyThr 80

Qy         253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
               ||||||||||||||||||   |||   |||:::|||   ||||||   ||||||||||||
Db          81 SerSerCysCysProPheSerGluGlyValSerCysAspAspGlyGlnHisCysCysPro 100

Qy         313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
               ||||||||||||||||||||||||||:::||||||   |||   |||   ::::::
Db         101 ArgGlyPheHisCysSerAlaAspGlyLysSerCysSerGlnIleSer---AspSerLeu 119

Qy         373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
               :::||||||:::|||||||||   ||||||||||||||||||||   :::|||||||||
Db         120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy         433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
               :::|||:::||||||||||||||||||||||||||||||||||||||||||||||||||
Db         140 IleMetIleAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy         493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
               |||||||||||||||||||||||||   |||||||||||||||||||||||||||:::
Db         160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysIleSer 179

Qy         553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
               ||||||||||||||||||   ||||||   ||||||||||||||||||||||||||||
Db         180 ProThrGlyThrHisProLeuLeuLysLysPheProAlaGlnArgThrAsnArgAlaVal 199

Qy         613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
               |||          ||||||:::|||||||||||:::::::::|||||||||   ||||||
Db         200 AlaPheProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy         673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
               ||||||||||||||:::||||||||||||||||||||||||||||||||||   ||||||
Db         220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy         733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy         793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
               :::||||||:::      |||||||||||:::|||||||||||   :::   |||
Db         260 IleSerLysAsp---TyrThrThrAspLeuMetThrLysLeuProGlyTyrProValAsn 278

Qy         853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
               :::||||||||||||:::||||||||||||||||||||||||||||||||||||||||||
Db         279 GluValLysCysAspLeuGluValSerCysProAspGlyTyrThrCysCysArgLeuAsn 298

Qy         913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
               :::||||||||||||||||||||||||||||:::||||||||||||||||||||||||||
Db         299 ThrGlyAlaTrpGlyCysCysProPheThrLysAlaValCysCysGluAspHisIleHis 318

Qy         973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
               ||||||||||||||||||   |||   |||:::   ||||||||||   |||
Db         319 CysCysProAlaGlyPheGlnCysHisThrGluThrGlyThrCysGluLeuGlyValLeu 338

Qy        1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
               ||||||||||||||||:::|||      |||   ||||||||||||||||||   |||
Db         339 GlnValProTrpMetLysLysValThrAlaSerLeuSerLeuProAspProGlnIleLeu 358

Qy        1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
               |||   ||||||||||||||:::   ||||||||||||||:::::|||||||||:::
Db         359 LysAsnAspValProCysAspAspPheSerSerCysProSerAsnAsnThrCysCysArg 378

Qy        1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
               |||:::||||||:::||||||||||||||||||||||||||||||||||||||   ||||||
Db         379 LeuSerSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysLeuAspHis 398

Qy        1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
               ||||||||||||||||||   :::   |||:::   ||||||   ||||||:::|||
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Db        399 GlnHisCysCysProGlnGlyPheLysCysMetAspGluGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
                 :::|||||||||||||||||||||||||    |||:::   :::|||
Db        419 ArgMetValAlaGlyLeuGluLysMetProValArgGlnThrThrLeuLeuGlnHisGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              ||||||||||||||||||||||||||||||||||||||||||   ||||||||||||||||
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              ||||||||||||||||||||||||||||||||||||:::|||||||||:::
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspAlaGly 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
              |||   ||||||:::      |||                ||||||      :::||||||
Db        499 SerValGlnProSerMetAspLeuThrPheGlySerLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              ||||||   ||||||||||||||||||||||:::||||||:::|||:::::   |||
Db        517 CysGlyAlaGlyHisPheCysHisAspAsnGlnSerCysCysLysAspSerGlnGlyGly 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              ||||||||||||||||||   :::||||||||||||   |||   ||||||||||||||||
Db        537 TrpAlaCysCysProTyrValLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
                 ||||||   |||:::   :::|||||||||||||||||||:::::   |||||||||
Db        557 IleGlyPheHisCysSerAlaLysGlyThrLysCysLeuArgLysLysThrProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              |||     ||||||||||||||||   |||   ||||||
Db        577 AspIleLeuLeuArgAspProAlaProArgProLeuLeu 589

RESULT 11
US-07-668-648-6
; Sequence 6, Application US/07668648
; Patent No. 5416192
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/668,648
;      FILING DATE:  19910819
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-668-648-6

Alignment Scores:
Pred. No.:                1.55e-166      Length:          589
Score:                    2693.00        Matches:         441
Percent Similarity:       83.98%         Conservative:    57
Best Local Similarity:    74.37%         Mismatches:      91
Query Match:              65.63%         Indels:          4
DB:                       1              Gaps:            3

US-09-824-647-16 (1-2095) x US-07-668-648-6 (1-589)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
              ||||||   |||:::|||||:::|||      |||||||||||||||||||:::|||
Db          1 MetTrpValLeuMetSerTrpLeuAlaPheAlaAlaGlyLeuValAlaGlyThrGlnCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              ||||||||||||||||||||||||||||||||||||||||   |||||||||:::||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||   ||||||||||||   ||||||          |||   ||||||   |||
Db         41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||   ||||||   ||||||:::||||||:::   ||||||||||||||||
Db         61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||||   :::   |||:::|||||||||||||:::||||||||||||
Db         81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
              :::|||||||||||||||||||||||||:::|||||||||||   |||   :::|||
Db        101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro 119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              :::|||||:::|||||||||   ||||||||||||||||||||   :::|||||||||
Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              :::||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||   ||||||||||||||||||||||:::::
Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer 179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              |||||||||||||   |||   ||||||   |||||||||:::|||||||||||||||
Db        180 ProThrGlyThrHisThrLeuLeuLysLysPheProAlaGlnLysThrAsnArgAlaVal 199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              :::|||      |||||:::||||||||||:::::::|||||||||   ||||||
Db        200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
              ||||||||||||||:::||||||||||||||||||||||||||||||   ||||||
Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              |||||||||   |||   |||||||||||||||||||||||||||||   :::   |||
Db        260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
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Db        279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn 298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              :::|||||||||||||||||||||||||||||   :::|||||||||||||||||||||||||||||
Db        299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysGluAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
              |||||||||||||||||   |||   |||:::|||||||||||||||   |||
Db        319 CysCysProAlaGlyPheGlnCysHisThrGluLysGlyThrCysGluMetGlyIleLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
              ||||||||||||||:::|||      |||      ||||||||||||||   |||
Db        339 GlnValProTrpMetLysLysValIleAlaProArgArgLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              |||   |||   |||||||||:::   :::   ||||||:::::::::|||||||||:::
Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              |||   ||||||:::|||||||||||||||||||||||||||||||||||||||||||:::
Db        379 LeuAsnSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysSerAspAsn 398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
              |||||||||||||||||   :::||||||:::|||:::|||   ||||||:::|||
Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
                :::|||||||||||||||||||:::||||||||||:::   :::
Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              |||||||||||||||||||||||||||||||||||||   |||||||||||||||
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
                |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              |||||||||||||||||||||||||||||||||||||||||||:::|||||||||:::|||
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
                ||||||          |||          |||   ||||||      :::||||||
Db        499 PheIleGlnProProValLeuLeuThrLeuGlyProLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              |||||||||||||||||||||||||||||||||||||||||||:::|||:::
Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              |||||||||||||||   :::||||||||||||   |||   ||||||||||||||||
Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
                ||||||   |||:::   |||||||||||||||||||||||:::::   |||||||||
Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              |||      ||||||||||||      |||   ||||||
Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589

RESULT 12
US-08-429-998-6
; Sequence 6, Application US/08429998
; Patent No. 5885961
;  GENERAL INFORMATION:
;    APPLICANT:  Shoyab, Mohammed
;    APPLICANT:  Plowman, Gregory D.
;    TITLE OF INVENTION:  EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
;    TITLE OF INVENTION:  MODULATING PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/429,998
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/668,648
;      FILING DATE:  13-MAR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Misrock, S. Leslie
;      REGISTRATION NUMBER:  18,872
;      REFERENCE/DOCKET NUMBER:  5624-161-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)790-9090
;      TELEFAX:  (212) 869-9741
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-429-998-6

Alignment Scores:
Pred. No.:                1.55e-166     Length:          589
Score:                    2693.00       Matches:         441
Percent Similarity:       83.98%        Conservative:    57
Best Local Similarity:    74.37%        Mismatches:      91
Query Match:              65.63%        Indels:          4
DB:                       2             Gaps:            3

US-09-824-647-16 (1-2095) x US-08-429-998-6 (1-589)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
              ||||||   |||:::||||||:::|||      |||||||||||||||||||:::|||
Db          1 MetTrpValLeuMetSerTrpLeuAlaPheAlaAlaGlyLeuValAlaGlyThrGlnCys 20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              |||||||||||||||||||||||||||||||||||||||||   |||||||||:::||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer 40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||   ||||||||||||   ||||||          |||   ||||||   |||
Db         41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer 60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||          ||||||   ||||||:::||||||:::   |||||||||||||||
Db         61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr 80

Qy        253 TCCAGTTGCTGCCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              |||||||||||||||||   :::   |||:::|||||||||||||:::||||||||||||
Db         81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
              :::|||||||||||||||||||||||:::|||||||||||   |||   :::|||
Db        101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro 119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              :::|||||:::|||||||||   |||||||||||||||||||||   :::|||||||||
Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
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Db        140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||  ||||||||||||||||||||||||||::::::
Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer 179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              |||||||||||||||   |||  ||||||  |||||||||:::|||||||||||||||
Db        180 ProThrGlyThrHisThrLeuLeuLysLysPheProAlaGlnLysThrAsnArgAlaVal 199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              :::|||     ||||||:::||||||||||||:::::::::|||||||||   ||||||
Db        200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
              |||||||||||||||:::||||||||||||||||||||||||||||||||||   ||||||
Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              |||||||||  |||  |||||||||||||||||||||||||||  :::   |||
Db        260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
              :::|||||||||||||||||||||||||||||:::|||||||||||||||||||||||||
Db        279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn 298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              :::|||||||||||||||||||||||||  :::|||||||||||||||||||||||||||
Db        299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysGluAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
              |||||||||||||||||  |||  |||:::|||||||||||||||  |||
Db        319 CysCysProAlaGlyPheGlnCysHisThrGluLysGlyThrCysGluMetGlyIleLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
              |||||||||||||:::|||      |||          ||||||||||||   |||
Db        339 GlnValProTrpMetLysLysValIleAlaProArgArgLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              |||   |||   |||||||||:::   :::   ||||||:::::::::|||||||||:::
Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              |||   ||||||:::|||||||||||||||||||||||||||||||||||||||||:::
Db        379 LeuAsnSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysSerAspAsn 398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
              |||||||||||||||||  :::||||||:::|||:::|||   ||||||:::|||
Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp 418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
                 :::|||||||||||||||||:::|||||||:::   :::
Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              |||||||||||||||||||||||||||||||||||  ||||||||||||||||
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              |||||||||||||||||||||||||||||||||||||||||:::|||||||||:::|||
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
                    ||||||          |||          |||   ||||||      :::||||||

Db        499 PheIleGlnProProValLeuLeuThrLeuGlyProLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
              ||||||||||||||||||||||||||||||||||||||||||:::|||:::
Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              |||||||||||||||||   :::||||||||||||   |||   ||||||||||||||||
Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
                 ||||||   |||:::   ||||||||||||||||||||:::::   |||||||||
Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              |||      ||||||||||||      |||   ||||||
Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589
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RESULT 13
US-08-431-333-6
; Sequence 6, Application US/08431333
; Patent No. 5965723
; GENERAL INFORMATION:
; APPLICANT: Shoyab, Mohammed
; APPLICANT: Plowman, Gregory D.
; TITLE OF INVENTION: EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
; TITLE OF INVENTION: MODULATING PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/431,333
; FILING DATE: 27-APR-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/668,648
; FILING DATE: 13-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Misrock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 5624-161-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212) 869-9741
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 589 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-431-333-6

Alignment Scores:

Pred. No.:	1.55e-166	Length:	589
Score:	2693.00	Matches:	441
Percent Similarity:	83.98%	Conservative:	57
Best Local Similarity:	74.37%	Mismatches:	91
Query Match:	65.63%	Indels:	4
DB:	2	Gaps:	3

US-09-824-647-16 (1-2095) x US-08-431-333-6 (1-589)

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Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC 72
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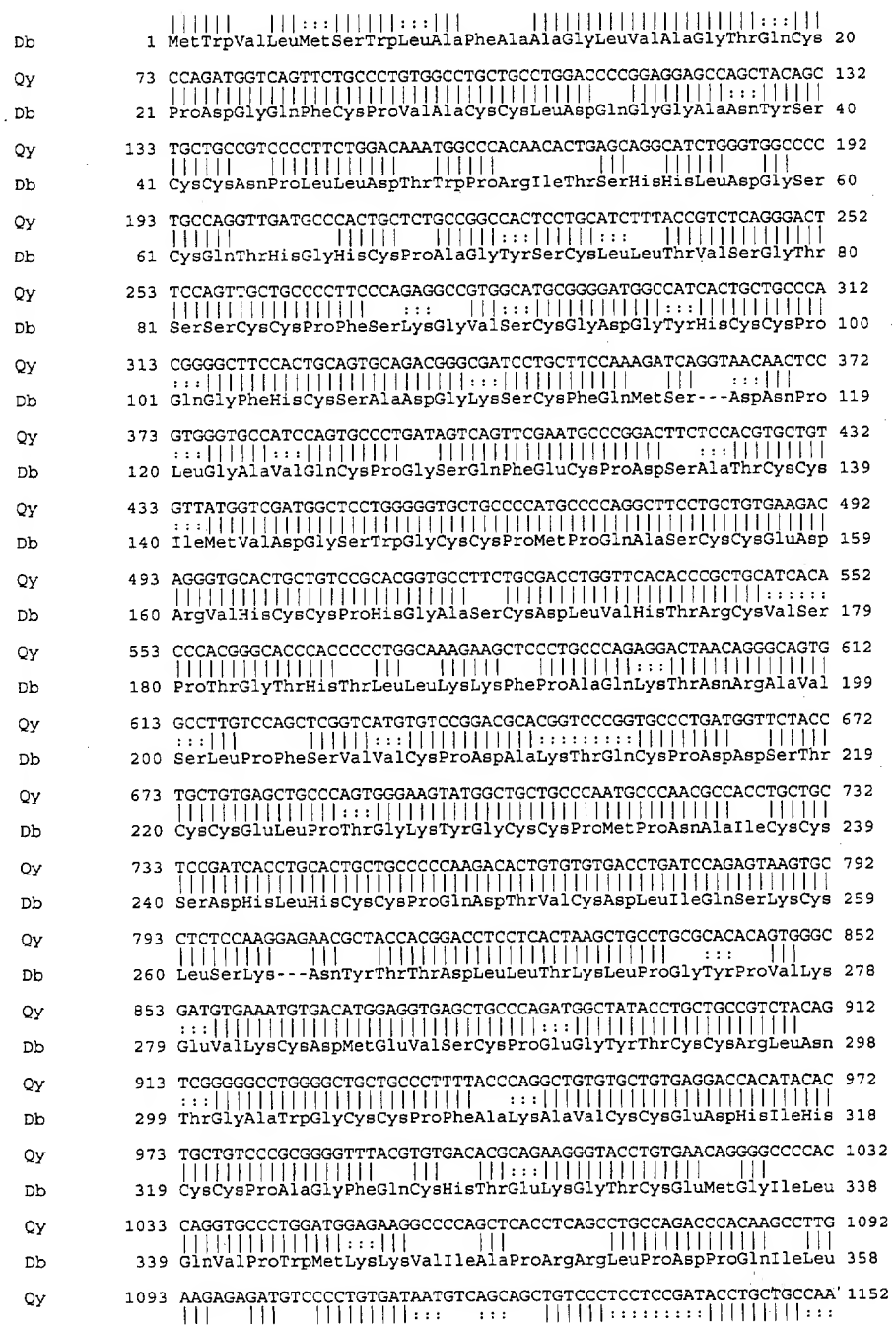

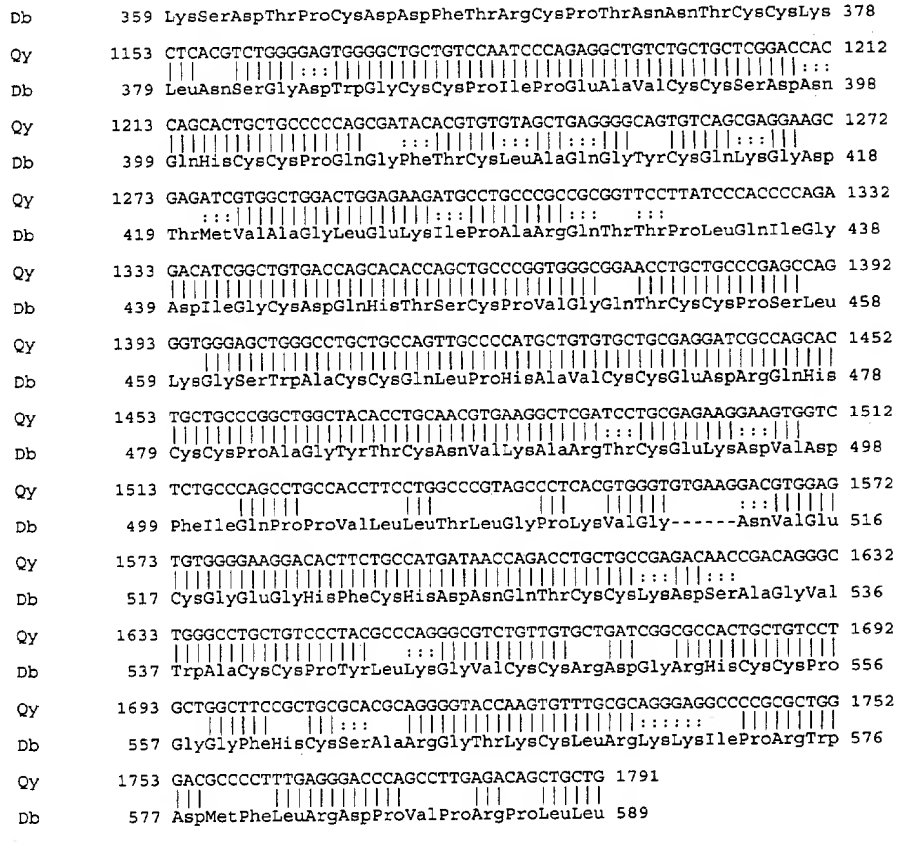

RESULT 14
PCT-US91-02321-6
; Sequence 6, Application PC/TUS9102321
; GENERAL INFORMATION:
; APPLICANT: Shoyab, Mohammed
; APPLICANT: Plowman, Gregory D.
; TITLE OF INVENTION: EPITHELINS: NOVEL CYSTEINE-RICH GROWTH
; TITLE OF INVENTION: MODULATING PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bristol-Myers Squibb Company
; STREET: 3005 First Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US91/02321
; FILING DATE: 19910403
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Poor, Brian W.

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;      REGISTRATION NUMBER:  32,928
;      REFERENCE/DOCKET NUMBER:  ON0071A-PC
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206)728-4800
;      TELEFAX:  (206)448-4775
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  589 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US91-02321-6

Alignment Scores:
Pred. No.:              1.55e-166       Length:         589
Score:                  2693.00         Matches:        441
Percent Similarity:     83.98%          Conservative:   57
Best Local Similarity:  74.37%          Mismatches:     91
Query Match:            65.63%          Indels:         4
DB:                     5               Gaps:           3

US-09-824-647-16 (1-2095) x PCT-US91-02321-6 (1-589)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC  72
              ||||||   |||:::|||||||:::|||      |||||||||||||||||||||:::|||
Db          1 MetTrpValLeuMetSerTrpLeuAlaPheAlaAlaGlyLeuValAlaGlyThrGlnCys  20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC 132
              ||||||||||||||||||||||||||||||||||||   |||||||||:::||||||
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer  40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC 192
              ||||||   ||||||||||||   ||||||      |||   ||||||   |||
Db         41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer  60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT 252
              ||||||         ||||||   ||||||:::||||||:::   ||||||||||||||||
Db         61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr  80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA 312
              ||||||||||||||||||   :::   |||:::|||||||||||:::||||||||||||
Db         81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro 100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC 372
              :::|||||||||||||||||||||||:::||||||||||||   |||   :::|||
Db        101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro 119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT 432
              :::||||||:::|||||||||   ||||||||||||||||||||   :::||||||||||
Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys 139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC 492
              :::||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp 159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA 552
              ||||||||||||||||||||||||   ||||||||||||||||||||||:::::
Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer 179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG 612
              ||||||||||||||   |||   ||||||   ||||||||||:::||||||||||||||
Db        180 ProThrGlyThrHisThrLeuLeuLysLysProProAlaGlnLysThrAsnArgAlaVal 199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC 672
              :::|||   ||||||:::|||||||||||:::::::::|||||||   ||||||
Db        200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr 219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC 732
              ||||||||||||||:::||||||||||||||||||||||||||||||   ||||||
Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys 239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC 792
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys 259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC 852
              |||||||||   |||   |||||||||||||||||||||||||||||||   :::   |||
Db        260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys 278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG 912
              :::|||||||||||||||||||||||||||||||||:::|||||||||||||||||||||
Db        279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn 298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC 972
              :::|||||||||||||||||||||||||||||   :::|||||||||||||||||||||||
Db        299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysGluAspHisIleHis 318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
              ||||||||||||||||||   |||   |||:::|||||||||||||||   |||
Db        319 CysCysProAlaGlyPheGlnCysHisThrGluLysGlyThrCysGluMetGlyIleLeu 338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
              ||||||||||||||:::|||   |||   ||||||||||||||   |||
Db        339 GlnValProTrpMetLysLysValIleAlaProArgArgLeuProAspProGlnIleLeu 358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
              |||   |||   |||||||||:::   :::   |||||:::::::::|||||||:::
Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys 378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
              |||   ||||||:::||||||||||||||||||||||||||||||||||||||||:::
Db        379 LeuAsnSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysSerAspAsn 398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
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Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp 418

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Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly 438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
              ||||||||||||||||||||||||||||||||||||||   ||||||||||||||||
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu 458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis 478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
              ||||||||||||||||||||||||||||||||||||||||:::||||||||||:::|||
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp 498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
              ||||||   |||   |||   ||||||      :::||||||
Db        499 PheIleGlnProProValLeuLeuThrLeuGlyProLysValGly------AsnValGlu 516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
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Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal 536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
              ||||||||||||||||   :::||||||||||||   |||   ||||||||||||||
Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro 556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
              ||||||   |||:::   ||||||||||||||||||||:::::   |||||||||
Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp 576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
              |||      ||||||||||||      |||   ||||||
Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589

RESULT 15
US-08-991-862-2
; Sequence 2, Application US/08991862
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; Patent No. 6309826
; GENERAL INFORMATION:
;  APPLICANT: Serrero, Ginette
;  TITLE OF INVENTION: 88 KDA TUMORIGENIC GROWTH FACTOR AND ANTAGONISTS
;  FILE REFERENCE: Z9996.488/P001-A
;  CURRENT APPLICATION NUMBER: US/08/991,862
;  CURRENT FILING DATE: 1998-08-17
;  EARLIER APPLICATION NUMBER: 08/863,862
;  EARLIER FILING DATE: 1997-05-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 589
;   TYPE: PRT
;   ORGANISM: Mouse epithelin/granulin
US-08-991-862-2

Alignment Scores:
Pred. No.:                9.27e-166      Length:          589
Score:                    2681.00        Matches:         439
Percent Similarity:       83.81%         Conservative:    58
Best Local Similarity:    74.03%         Mismatches:      92
Query Match:              65.34%         Indels:          4
DB:                       4              Gaps:            3

US-09-824-647-16 (1-2095) x US-08-991-862-2 (1-589)

Qy         13 ATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGC  72
Db          1 MetTrpValLeuMetSerTrpLeuAlaPheAlaAlaGlyLeuValAlaGlyThrGlnCys  20

Qy         73 CCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGCCAGCTACAGC  132
Db         21 ProAspGlyGlnPheCysProValAlaCysCysLeuAspGlnGlyGlyAlaAsnTyrSer  40

Qy        133 TGCTGCCGTCCCCTTCTGGACAAATGGCCCACAACACTGAGCAGGCATCTGGGTGGCCCC  192
Db         41 CysCysAsnProLeuLeuAspThrTrpProArgIleThrSerHisHisLeuAspGlySer  60

Qy        193 TGCCAGGTTGATGCCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGACT  252
Db         61 CysGlnThrHisGlyHisCysProAlaGlyTyrSerCysLeuLeuThrValSerGlyThr  80

Qy        253 TCCAGTTGCTGCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCA  312
Db         81 SerSerCysCysProPheSerLysGlyValSerCysGlyAspGlyTyrHisCysCysPro  100

Qy        313 CGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACTCC  372
Db        101 GlnGlyPheHisCysSerAlaAspGlyLysSerCysPheGlnMetSer---AspAsnPro  119

Qy        373 GTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTCCACGTGCTGT  432
Db        120 LeuGlyAlaValGlnCysProGlySerGlnPheGluCysProAspSerAlaThrCysCys  139

Qy        433 GTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGGCTTCCTGCTGTGAAGAC  492
Db        140 IleMetValAspGlySerTrpGlyCysCysProMetProGlnAlaSerCysCysGluAsp  159

Qy        493 AGGGTGCACTGCTGTCCGCACGGTGCCTTCTGCGACCTGGTTCACACCCGCTGCATCACA  552
Db        160 ArgValHisCysCysProHisGlyAlaSerCysAspLeuValHisThrArgCysValSer  179

Qy        553 CCCACGGGCACCCACCCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTG  612
Db        180 ProThrGlyThrHisThrLeuLeuLysLysPheProAlaGlnLysThrAsnSerAlaVal  199

Qy        613 GCCTTGTCCAGCTCGGTCATGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACC  672
Db        200 SerLeuProPheSerValValCysProAspAlaLysThrGlnCysProAspAspSerThr  219

Qy        673 TGCTGTGAGCTGCCCAGTGGGAAGTATGGCTGCTGCCCAATGCCCAACGCCACCTGCTGC  732
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Db        220 CysCysGluLeuProThrGlyLysTyrGlyCysCysProMetProAsnAlaIleCysCys  239

Qy        733 TCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACCTGATCCAGAGTAAGTGC  792
Db        240 SerAspHisLeuHisCysCysProGlnAspThrValCysAspLeuIleGlnSerLysCys  259

Qy        793 CTCTCCAAGGAGAACGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGGGC  852
Db        260 LeuSerLys---AsnTyrThrThrAspLeuLeuThrLysLeuProGlyTyrProValLys  278

Qy        853 GATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAG  912
Db        279 GluValLysCysAspMetGluValSerCysProGluGlyTyrThrCysCysArgLeuAsn  298

Qy        913 TCGGGGGCCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACAC  972
Db        299 ThrGlyAlaTrpGlyCysCysProPheAlaLysAlaValCysCysAspAspHisIleHis  318

Qy        973 TGCTGTCCCGCGGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACAGGGGCCCCAC 1032
Db        319 CysCysProAlaGlyPheGlnCysHisThrGluLysGlyThrCysGluMetGlyIleLeu  338

Qy       1033 CAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCCACAAGCCTTG 1092
Db        339 GlnValGlyTrpMetLysLysValIleAlaProLeuArgLeuProAspProGlnIleLeu  358

Qy       1093 AAGAGAGATGTCCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCCAA 1152
Db        359 LysSerAspThrProCysAspAspPheThrArgCysProThrAsnAsnThrCysCysLys  378

Qy       1153 CTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCAC 1212
Db        379 LeuAsnSerGlyAspTrpGlyCysCysProIleProGluAlaValCysCysSerAspAsn  398

Qy       1213 CAGCACTGCTGCCCCCAGCGATACACGTGTGTAGCTGAGGGGCAGTGTCAGCGAGGAAGC 1272
Db        399 GlnHisCysCysProGlnGlyPheThrCysLeuAlaGlnGlyTyrCysGlnLysGlyAsp  418

Qy       1273 GAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGCGGTTCCTTATCCCACCCCAGA 1332
Db        419 ThrMetValAlaGlyLeuGluLysIleProAlaArgGlnThrThrProLeuGlnIleGly  438

Qy       1333 GACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGCGGAACCTGCTGCCCGAGCCAG 1392
Db        439 AspIleGlyCysAspGlnHisThrSerCysProValGlyGlnThrCysCysProSerLeu  458

Qy       1393 GGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGCAC 1452
Db        459 LysGlySerTrpAlaCysCysGlnLeuProHisAlaValCysCysGluAspArgGlnHis  478

Qy       1453 TGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTC 1512
Db        479 CysCysProAlaGlyTyrThrCysAsnValLysAlaArgThrCysGluLysAspValAsp  498

Qy       1513 TCTGCCCAGCCTGCCACCTTCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAG 1572
Db        499 PheIleGlnProProValLeuLeuThrLeuGlyProLysValGly------AsnValGlu  516

Qy       1573 TGTGGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAACCGACAGGGC 1632
Db        517 CysGlyGluGlyHisPheCysHisAspAsnGlnThrCysCysLysAspSerAlaGlyVal  536

Qy       1633 TGGGCCTGCTGTCCCTACGCCCAGGGCGTCTGTTGTGCTGATCGGCGCCACTGCTGTCCT 1692
Db        537 TrpAlaCysCysProTyrLeuLysGlyValCysCysArgAspGlyArgHisCysCysPro  556

Qy       1693 GCTGGCTTCCGCTGCGCACGCAGGGGTACCAAGTGTTTGCGCAGGGAGGCCCCGCGCTGG 1752
Db        557 GlyGlyPheHisCysSerAlaArgGlyThrLysCysLeuArgLysLysIleProArgTrp  576

Qy       1753 GACGCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTG 1791
Db        577 AspMetPheLeuArgAspProValProArgProLeuLeu 589
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Search completed: March 26, 2004, 12:50:16
Job time : 66 secs